

VARIANT MIC TEST REPORT

(WIFI and BLE)

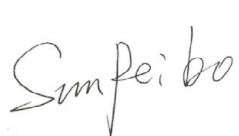
Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer or Supplier:	Lenovo PC HK Limited
Address:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
Product:	Portable Tablet Computer
Brand Name:	LAVIE Tab Lite
Model Name:	LAVIE Tab 10FHD4
Date of tests:	Aug. 05, 2024 ~ Sep. 06, 2024 Jun. 09, 2025 ~ Jun. 20, 2025

The tests have been carried out according to the requirements of the following standard:

☒ ARIB STD-T66, MIC notice 88 Appendix 43

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Jun. 20, 2025	Date: Jun. 20, 2025

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2407300316RJ03	Original release	Sep. 06, 2024
PSU-QBJ2506170217RJ03	All the hard ware of this device (Model: LAVIE Tab 10FHD4) are all the same with origin(Model: TB311FU),just different brand and model for different market. So we just change information about brand/model/HW/SW/Adapter based on original report.All test data are copied from original test. The detailed difference are as follows.	Jun. 20, 2025

The detail differences from the original source are as listed below:

	Original	Second Source
Brand Name	Lenovo	LAVIE Tab Lite
Model Name	TB311FU	LAVIE Tab 10FHD4
HW Version	TB311FU	LAVIETab10FHD4
SW Version	TB311FU_RF01_20240921	LAVIETab10FHD4_RF01_20241204
Adapter	Aohai/MC-201L	NEC/MC-201L

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications (For 802.11b/g/n):

Notice 88 Appendix 43 Reference	ARIB STD-T66 Ref.	Report reference	Parameter	Test Results (NOTE)
GENERAL PROVISIONS				
C	3.2 (4)	4.1	Frequency tolerance	C
D	3.2 (7)	4.2	Occupied bandwidth	C
E	3.2 (6)	4.4	Spurious emissions	C
TRANSMITTING EQUIPMENT				
F	3.2(1)	4.5	Antenna power	C
--	--	--	SAR	NA
TRANSMITTING ANTENNA				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
RECEIVING EQUIPMENT				
G	3.3 (1)	4.6	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
OPERATING FREQUENCY 2400 TO 2483.5MHz				
--	3.7 (1)	3.4	High Frequency/modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	C
--	3.2 (2)	4.5	Antenna power	C
--	3.6 (2)	4.5	Absolute gain of transmitting antenna	C
--	3.6 (2)	4.6	Angular width of principal radiation (AWPR)	C
--	3.2 (10)	-	Number of carriers within 1 MHz bandwidth in OFDM	C
--	3.2 (8)	4.2	Diffusion bandwidth	C
--	3.2 (9)	4.3	Spreading factor	C
--	3.4.1(1)	4.8	Interference Prevention Function	C
--	3.4.1(3)	4.7	Carrier Sense Capability	C
--	3.7(1)	4.9	Construction Protection Confirmation	C
NOTE: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable				

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

ITEM	UNCERTAINTY
Occupied Bandwidth	261.60 Hz
Spurious emissions	2.52dB
Output power density	1.37dB
Out of band radiated power	2.52 dB
Frequency Tolerance	0.104 m



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF LAB

TEST LAB	Huarui 7Layers High Technology (Suzhou) Co., Ltd.
TEST LAB ADDRESS:	Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, People's Republic of China

2.2 GENERAL DESCRIPTION OF EUT

PRODUCT	Portable Tablet Computer	
BRAND NAME	LAVIE Tab Lite	
MODEL NAME	LAVIE Tab 10FHD4	
TYPE OF EQUIPMENT	Data transmission equipment operating in the 2.4GHz	
MODULATION TECHNOLOGY	DSSS, OFDM, GFSK	
OPERATING FREQUENCY	802.11b/g/n (HT20): 2412MHz ~ 2472MHz 802.11n (HT40): 2422MHz ~ 2462MHz BT-LE (S8&S2&1M&2M): 2402MHz ~ 2480MHz	
NUMBER OF CHANNEL	802.11b/g/n (HT20) : 13 802.11b/g/n (HT40) : 9 BT-LE (S8&S2&1M&2M): 40	
RATED RF OUTPUT POWER DENSITY	Refer to NOTE 3	
CONDUCTED RF OUTPUT POWER DENSITY	Refer to NOTE 3	
RADIATED RF OUTPUT POWER DENSITY	Refer to NOTE 3	
ANTENNA TYPE	2.4G WIFI	PIFA Antenna with -0.24dBi gain
	BT_LE	PIFA Antenna with -0.24dBi gain
HW-Release No	LAVIETab10FHD4	
SW-Release No	LAVIETab10FHD4_RF01_20241204	

**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function without beamforming.

MODULATION MODE	TX/RX FUNCTION
802.11b	1TX /1RX
802.11g	1TX /1RX
802.11n(HT20)	1TX /1RX
802.11n(HT40)	1TX /1RX
BT_LE(S8)	1TX /1RX
BT_LE(S2)	1TX /1RX
BT_LE(1MHz)	1TX /1RX
BT_LE(2MHz)	1TX /1RX

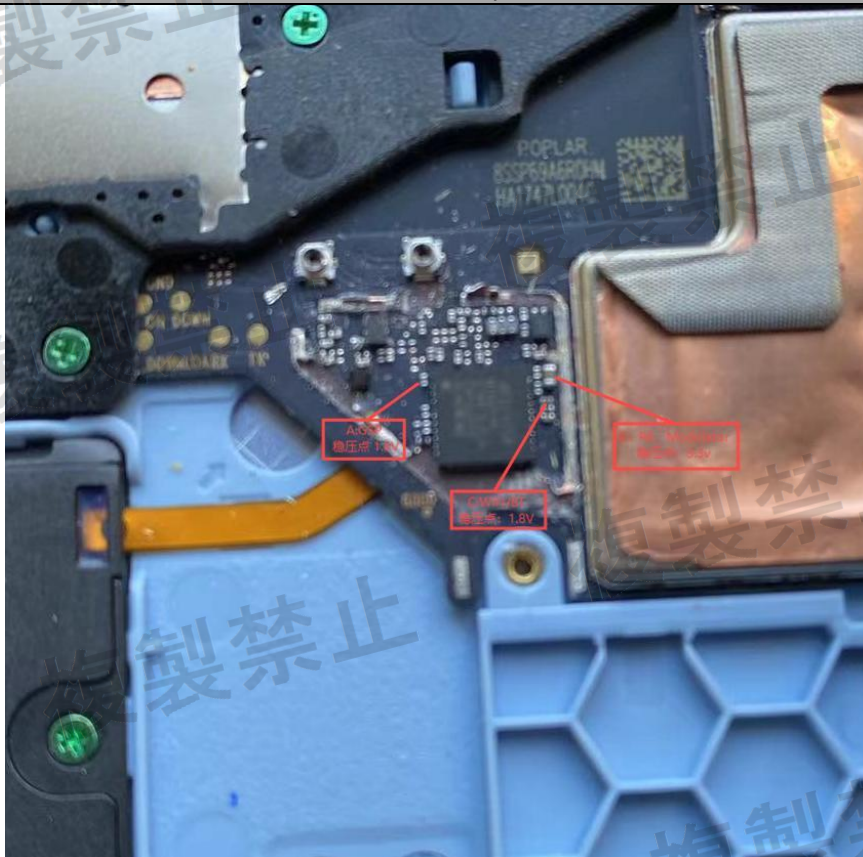
3. The power table as below table:

	Rated output power density (mW/MHz)	Conducted RF output power density (mW/MHz)	Radiated RF output power density (mW/MHz)
802.11b	10	7.5509	7.14
802.11g	10	4.8641	4.60
802.11n (HT20)	2.5	2.3550	2.23
802.11n (HT40)	2.5	1.1803	1.12

	Rated output power density (mW)	Conducted RF output power density (mW)	Radiated RF output power density (mW)
BLE (1M)	2	2.1232	2.01
BLE (2M)	2	2.1086	2
BLE (125K)	2	2.0797	1.97
BLE (500K)	2	2.1038	1.99

4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

5. When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cased were done under the normal supply voltage.

Power supply voltage 3.9Vdc (Normal)	Power supply voltage 4.29Vdc (+10%)	Power supply voltage 3.5Vdc (-10%)
1.80	1.80	1.80
Measurement point		
		

6. For the test results, the EUT had been tested with normal supply voltage condition.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
BATTERY 1	Zhejiang Sunwoda Electronic Co., Ltd.	Zhejiang Sunwoda Electronic Co., Ltd.	L24D1P32	Nominal Energy: 19.55Wh, Typical Energy: 19.95Wh
BATTERY 2	Ningde Amperex Technology Limited	Ningde Amperex Technology Limited	L24D1P32	Nominal Energy: 19.55Wh, Typical Energy: 19.95Wh
AC ADAPTER	NEC	Jiangxi Jian Aohai Technology Co., Ltd.	MC-201L	I/P: 100-240V~, 50/60Hz, 0.7A, O/P: 5.0Vdc 3.0A 15W 10Vdc 2.0A 20W 12Vdc 1.67A 20W
USB CABLE 1	Jieye	Jiangxi Jieye Electronics Co., LTD	JY-C03-422	Signal Line,1.0meter
USB CABLE 2	Saibao	Saibao (Jiangxi) Industrial Co., LTD	SLQ-A263A	Signal Line,1.0meter
EARPHONE (optional)	Lenovo	N/A	E310	-
Pen(optional)	Lenovo	N/A	passive pen	-

2.3 DESCRIPTION OF TEST CHANNELS

Thirteen channels are provided for 802.11b, 802.11g, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

Nine channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457 MHz
6	2437 MHz	11	2462 MHz
7	2442 MHz		

Forty channels are provided for BT-LE (GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

NOTE:

- The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
- By means of test software for 802.11b/g/n provided by manufacture, the power levels during the tests were set according to the following codes:



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SISO MODE:

BT-LE (S8)		BT-LE (S2)	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
0	Default	0	Default
19	Default	19	Default
39	Default	39	Default
BT-LE (1M)		BT-LE (2M)	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
0	Default	0	Default
19	Default	19	Default
39	Default	39	Default

SISO MODE:

802.11b		802.11g	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
1	17.5	1	18.5
7	17	7	18.5
13	17	13	18
802.11n (HT20)		802.11n (HT40)	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
1	15.5	3	14.5
7	15.5	7	14.5
13	15	11	14

- In the finger plate, dial the code for entering Engineer mode: `***3646633***`
EngineerMode->CONNECTIVITY->WIFI or BLE->Tx

2.4 TEST CONDITIONS

Test conditions	Voltage (Vdc)
V_{normal}	3.9
V_{max}	4.29
V_{min}	3.5

2.5 ASSEMBLY

The RF circuits are located inside of the EUT. The RF circuit was covered by metal shielding case, Also it won't be easy to be opened. Frequency Band, channels and Modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

2.6 ANTENNA SPECIFICATIONS

2.6.1 ANTENNA GAIN

Ant. Type	Connector Type	Highest Peak Gain with Cable Loss (dBi) 2.4GHz ~ 2.5GHz
PIFA Antenna	N/A	-0.24

2.6.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).

3. TEST RESULTS

3.1 FREQUENCY TOLERANCE MEASUREMENT

3.1.1 LIMITS OF FREQUENCY TOLERANCE MEASUREMENT

Tolerance of frequency shall be +/- 50ppm

3.1.2 TEST PROCEDURES

Method 1

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. That are attenuated by 10 dB relative to the maximum level measured in the fundamental emission for EUT ,then Mark F1 and f2,final use formula $FT = \frac{[(f1+f2)/2]-f}{f}$, f=fundamental emission frequency

Method 2

1. Set RBW = 1 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum Peak of the emission for CW and mark f1,then use formula $FT = (f1-f)/f$, f=fundamental emission frequency

3.1.3 TEST SETUP





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3.1.4 TEST RESULTS

NOTE: Please Refer to Appendix A/B Of this test report.

3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

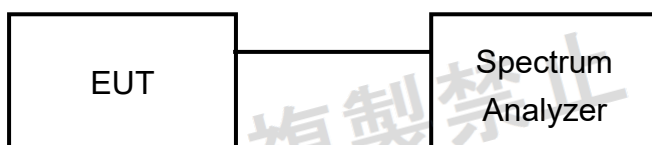
3.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

ITEM	LIMIT	REMARK
Occupied bandwidth	<26MHz	For 802.11b, g & 802.11n (HT20)
Occupied bandwidth	<38MHz	For 802.11n (HT40)
Occupied bandwidth	<26MHz	For BT-LE (GFSK)

3.2.2 TEST PROCEDURES

1. Set RBW = 300 kHz.
 2. Set the video bandwidth (VBW) $\geq$ RBW.
 3. Detector = Peak.
 4. Trace mode = max hold.
 5. Sweep = auto couple.
 6. Allow the trace to stabilize.
 7. Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.
- Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

NOTE: Please Refer to Appendix A/B Of this test report.

3.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH)

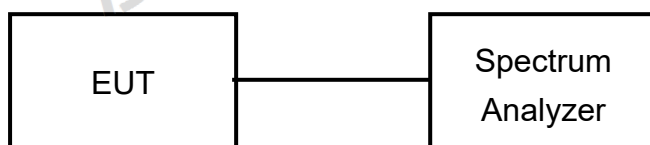
3.3.1 LIMITS OF SPREADING BANDWIDTH AND SPREADING FACTOR

ITEM	LIMIT	REMARK
SPREADING FACTOR	≥ 5	Operating frequency 2400 to 2483MHz
SPREADING BANDWIDTH	$\geq 500\text{kHz}$	

3.3.2 TEST PROCEDURES

Use 3.2.2 method

3.3.3 TEST SETUP



3.3.4 TEST RESULTS

NOTE: Please Refer to Appendix A/B Of this test report.

3.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

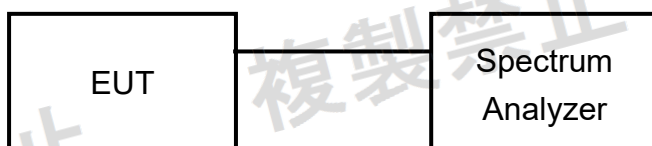
3.4.1 LIMITS OF SPURIOUS EMISSIONS

FREQUENCIES (MHz)	LIMIT
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 1000.0MHz	$\leq 2.5\mu\text{W}/\text{MHz}$
1000.0MHz to 2387MHz	$\leq 2.5\mu\text{W}/\text{MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\mu\text{W}/\text{MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\mu\text{W}/\text{MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5\mu\text{W}/\text{MHz}$

3.4.2 TEST PROCEDURES

1. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

3.4.3 TEST SETUP





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3.4.4 SUMMARY OF TEST RESULT

NOTE: Please Refer to Appendix A/B Of this test report.

3.5 ANTENNA POWER MEASUREMENT

3.5.1 LIMITS OF ANTENNA POWER

Antenna power shall be 10mW or less.

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max)	
			Omni-directional case	Directional case
DS-OFDM (Narrow-Band)	2400 to 2483.5MHz	10mW/MHz	12.14dBm/MHz (16.368mW/MHz)	22.14dBm/MHz (163.68 mW/MHz)
OFDM (Wide-Band)	2400 to 2483.5MHz	5mW/MHz	9.14dBm/MHz (8.20mW/MHz)	19.14dBm/MHz (82.04mW/MHz)
DTS	2400 to 2483.5MHz	10mW	12.14 dBm (16.368 mW)	22.14 dBm (163.68 mW)

Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

According article 49.20 f(2) The angular width of the principal radiation in the horizontal and vertical planes of the transmitting antenna shall not exceed the value obtained by the following expression. $360/A$ degree

A represents the value determined by dividing an equivalent isotropically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dB, and shall be 1 when it is lower than 1

3.5.2 TEST PROCEDURES

WLAN:

Set 1:

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) = $3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Span = $2 \times \text{EBW}$
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Mark Spectrum Analyzer Peak point



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Set 2:

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) = RBW.
3. Detector = average.
4. Trace mode = average
5. Span = Zero Span
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Record the Power meter Value

Set 3:

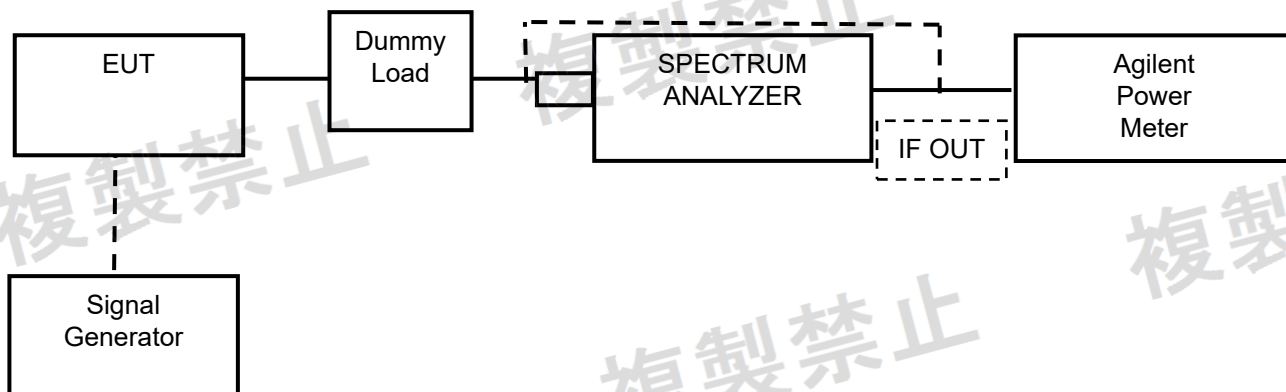
Use SG instead of eut and repeat the above operation ,then Record the value of SG

BLE :

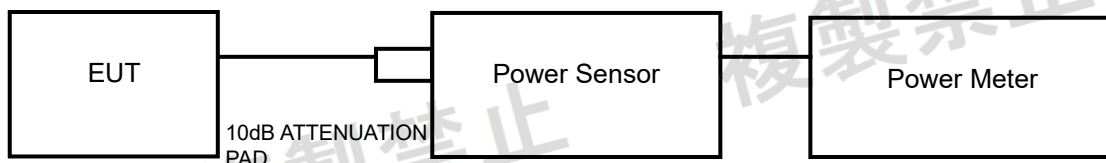
Connect a high frequency power meter to the output of the dummy load (attenuator) and measure the total power.

3.2.1 TEST SETUP

WLAN:



BLE:





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3.5.3 TEST RESULTS

NOTE: Please Refer to Appendix A/B Of this test report.

3.6 SPURIOUS EMISSIONS FOR RECEIVER

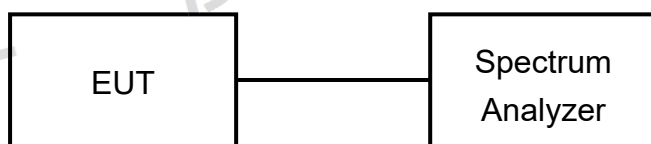
3.6.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

FREQUENCIES (MHz)	LIMIT
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

3.6.2 TEST PROCEDURES

1. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

3.6.3 TEST SETUP



(EUT operate in multiple outputs:

The measurement was investigated worst chain and the worst chain was selected as representative test and add $10\log(N)$, its data was recorded in this report.)



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3.6.4 SUMMARY OF TEST RESULT

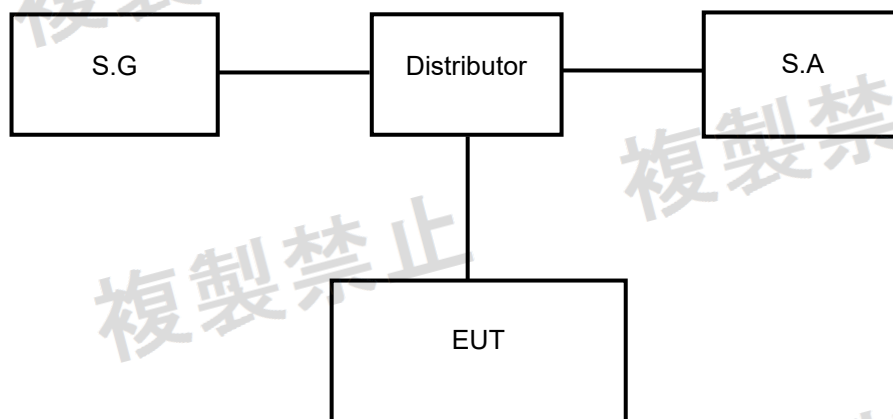
NOTE: Please Refer to Appendix A/B Of this test report.

3.7 CARRIER SENSE CAPABILITY

3.7.1 MEASURING SYSTEM BLOCK DIAGRAM

(EUT operate in multiple outputs:

The measurement was performed by combiner.)



3.7.2 MEASURING OPERATION PROCEDURES

- Turn the standard signal generator output OFF. Leave the equipment under test to be ready for transmission and verify the transmission with the spectrum analyzer.
- Set the equipment under test to the receiving state.
- Turn the standard signal generator ON and leave the equipment under test to be ready for transmission and verify with the spectrum analyzer that no transmission is being made.

3.7.3 TEST RESULTS

MODE	FREQUENCY (MHz)	Pcs (dBm)	C.F (dB)	S.G LEVEL	Test Result
11n (HT40)	2422	-45.13	11	-42.857	PASS
	2442	-44.96	11	-42.796	PASS
	2462	-45.04	11	-42.459	PASS

NOTE:

Pcs (dBm) = 22.79 + Gr - 20log(F).

Gr: Antenna gain (2.4GHz: -0.24dBi).

F: Transmission frequency (MHz).

CF = Distributor loss + cable loss.

3.8 INTERFERENCE PREVENTION FUNCTION

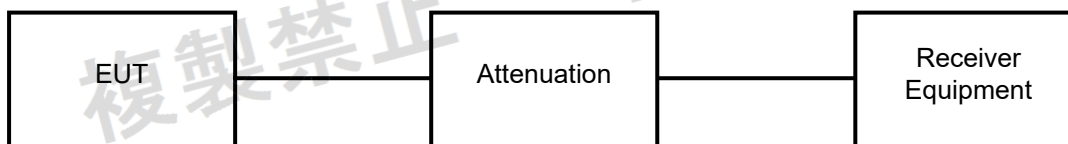
3.8.1 LIMITS OF INTERFERENCE PREVENTION FUNCTION

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

3.8.2 TEST PROCEDURES

According to ANNEX 43 Temporary test method specified by TACOYAKI.

3.8.3 TEST SETUP



3.8.4 TEST RESULTS

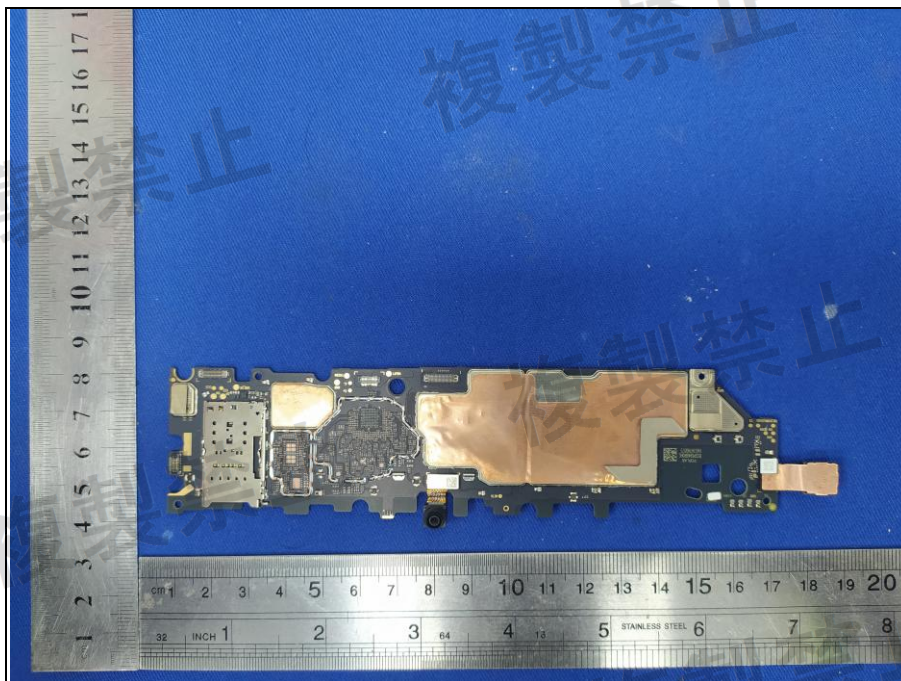
ENVIRONMENTAL CONDITIONS	24 deg.C, 59% RH
LINK MODE	TEST RESULT
WiFi	PASS
BLE	PASS

3.9 CONSTRUCTION PROTECTION CONFIRMATION METHOD

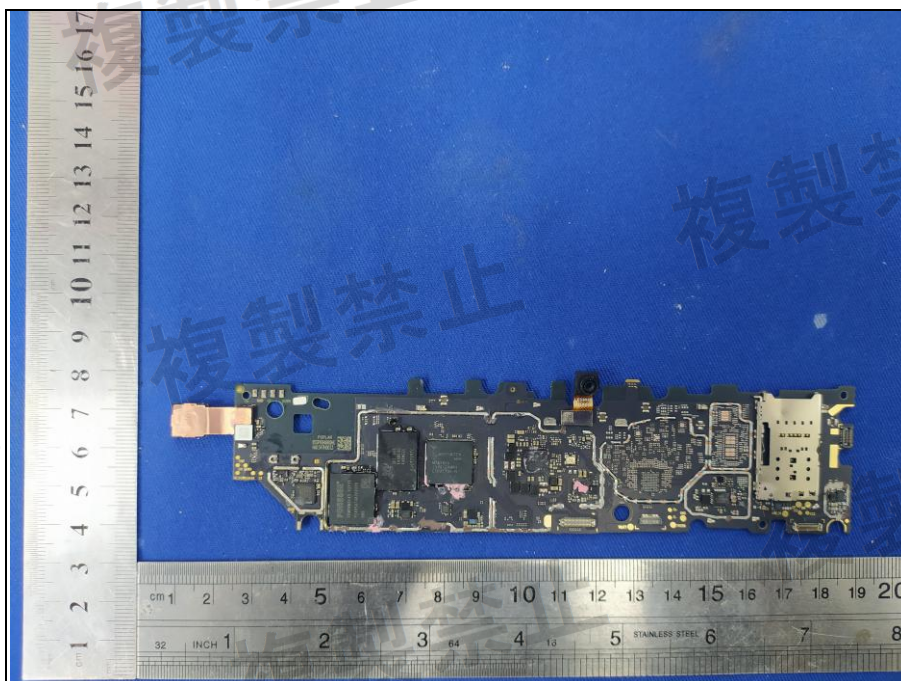
3.9.1 CONFIRMATION METHOD

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :

3.9.2 THE PHOTOS OF CONSTRUCTION PROTECTION



3.9.3 TEST CIRCUIT PHOTO



4 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Calibration Authority	Last Cal.	Next Cal.	Cal. Method
Power Meter	ANRITSU	ML2495A	1506002	GuangDian	Feb. 22,24	Feb. 21,25	c
DC Source	Agilent	U8002A	MY52140018	GuangDian	Jun. 01,24	May. 31,25	c
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	GuangDian	Feb. 22,24	Feb. 21,25	c
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	GuangDian	Jun. 01,24	May. 31,25	c
Power Sensor	ANRITSU	MA2411B	1339352	GuangDian	May. 06,24	May. 05,25	c
Signal Generator N5182B	KEYSIGHT	N5182B	MY56200114	GuangDian	Feb. 14,24	Feb. 13,25	c

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to Calibration Lab: GRE Metrology & Test Group CO., LTD. Address: NO.163 Pingyun Rd, West of Huangpu Ave. Guangzhou, Guangdong, China.

2. The test was performed in RF Oven room.

Calibration Method:

- a: Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K, Keysight Technologies, Inc~.
- b: Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System~
- c: Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K, Keysight Technologies, Inc~
- d: Calibration conducted by using other equipment that listed above from a) to c)

5 PHOTOGRAPHS OF THE TEST CONFIGURATION





Test Report No.: PSU-QBJ2506170217RJ03

6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

7 APPENDIX A: WLAN

FREQUENCY ERROR

TEST RESULT

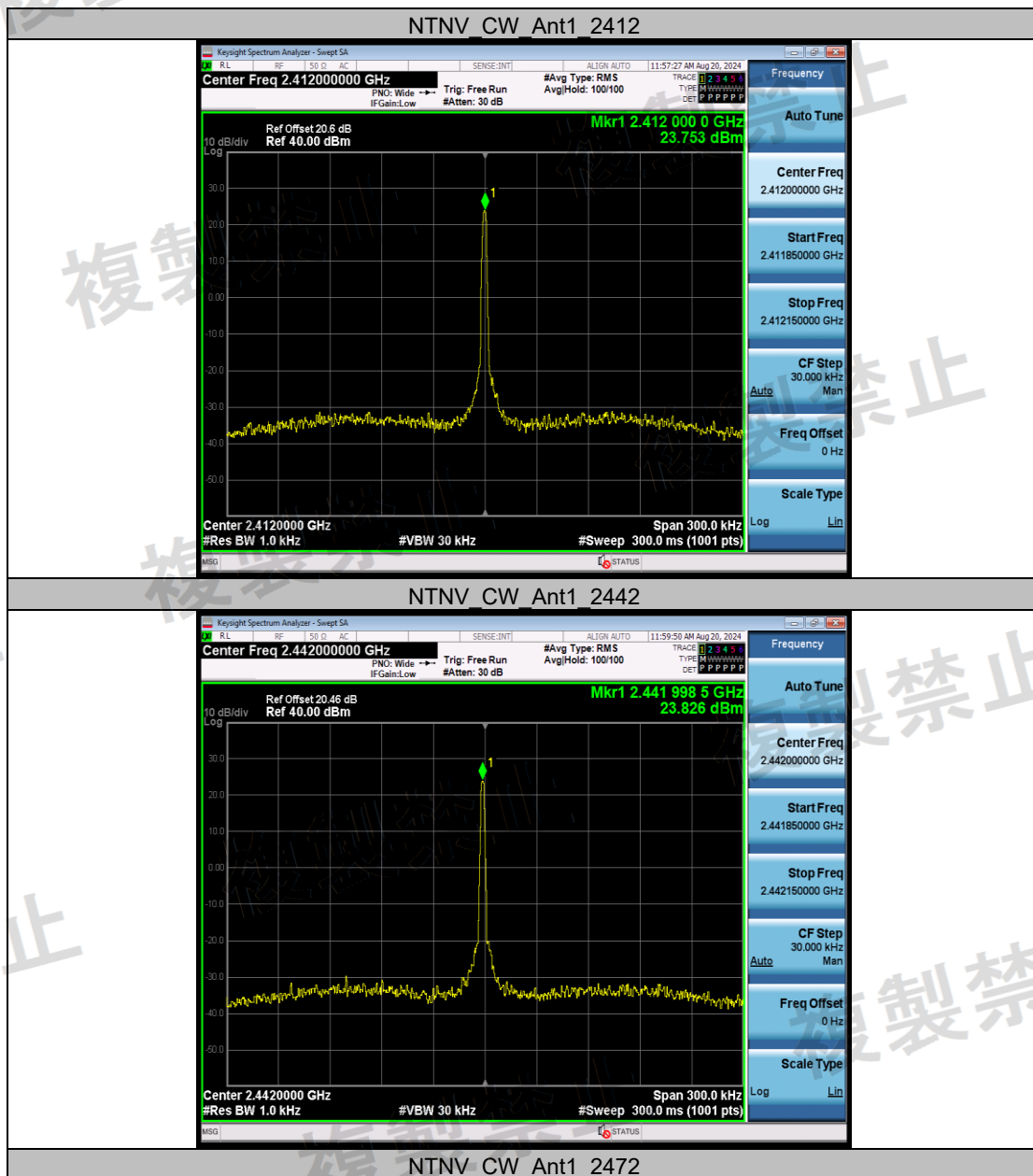
TestCondition	TestMode	Antenna	Freq(MHz)	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	CW	Ant1	2412	2412	0.00000	±50	PASS
			2442	2441.9985	-0.61425	±50	PASS
			2472	2471.9985	-0.60680	±50	PASS
			2422	2421.9985	-0.61932	±50	PASS
			2462	2461.9982	-0.73111	±50	PASS



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TEST GRAPHS



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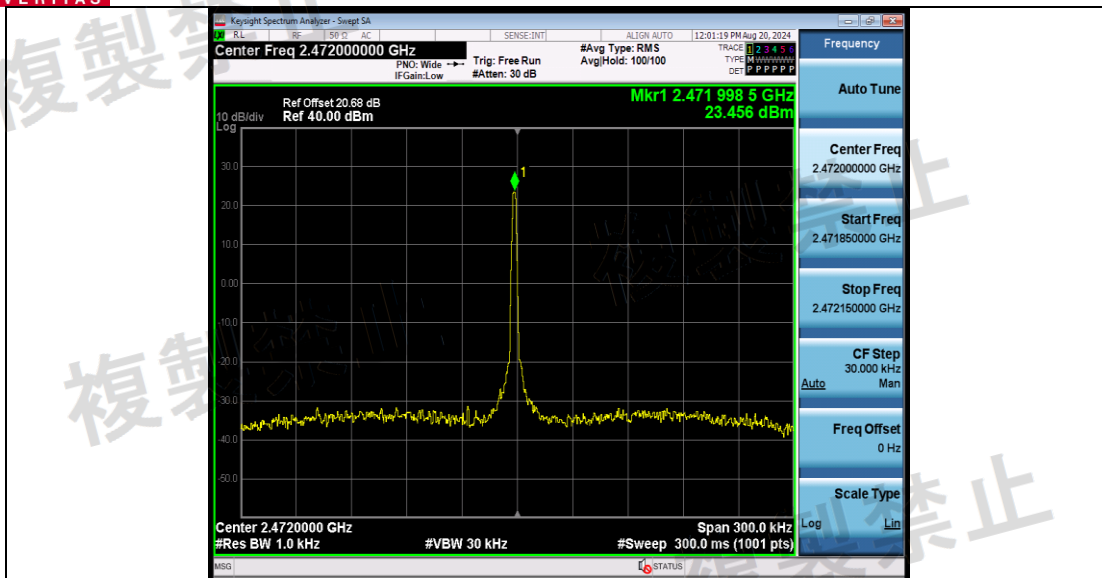
Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008

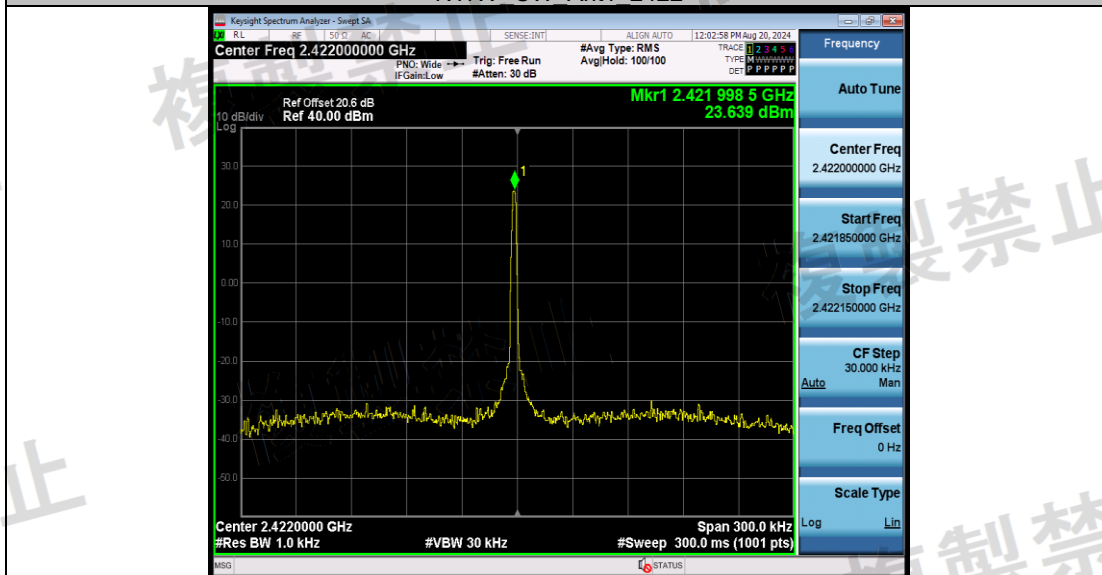


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Test Report No.: PSU-QBJ2506170217RJ03



NTNV CW Ant1 2422



NTNV CW Ant1 2462

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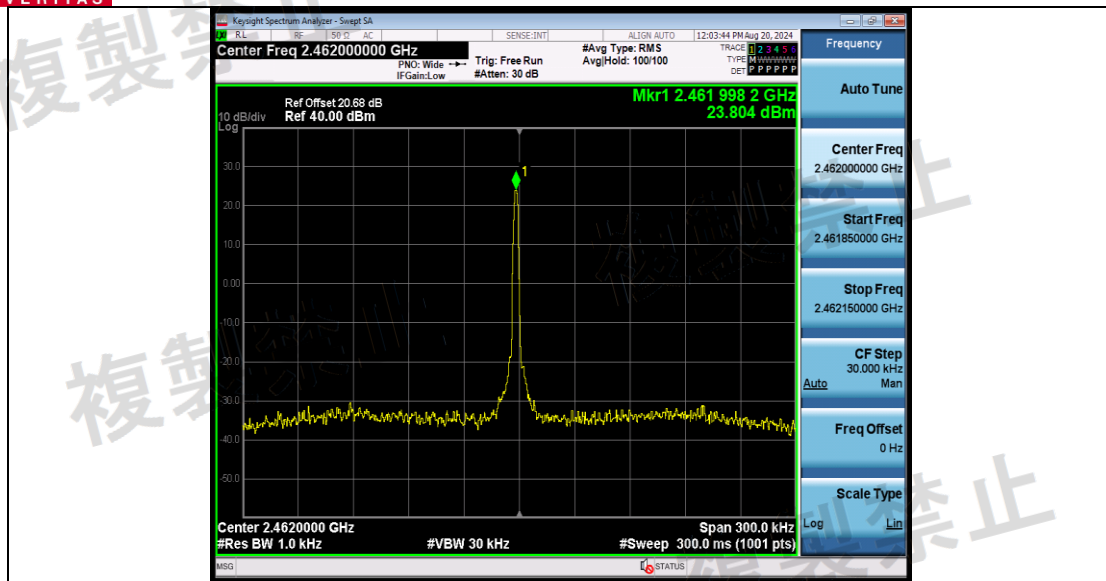
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Test Report No.: PSU-QBJ2506170217RJ03



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ANTENNA POWER

TEST RESULT PSD

Antenna Power							
Test Condition	Test Mode	Antenna	Freq(M Hz)	Result(dBm /MHz)	Result(mW/ MHz)	Limit(mW/ MHz)	Verdict
NTNV	11B	Ant1	2412	8.64	7.3114	≤10	PASS
			2442	8.17	6.5615	≤10	PASS
			2472	8.78	7.5509	≤10	PASS
	11G	Ant1	2412	6.47	4.4361	≤10	PASS
			2442	6.53	4.4978	≤10	PASS
			2472	6.87	4.8641	≤10	PASS
	11N20SI SO	Ant1	2412	3.11	2.0464	≤10	PASS
			2442	3.72	2.3550	≤10	PASS
			2472	2.85	1.9275	≤10	PASS
	11N40SI SO	Ant1	2422	0.64	1.1588	≤5	PASS
			2442	-0.11	0.9750	≤5	PASS
			2462	0.72	1.1803	≤5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW/ MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	7.3114	10	-26.89	-80 to +20	PASS
			2442	6.5615	10	-34.39	-80 to +20	PASS
			2472	7.5509	10	-24.49	-80 to +20	PASS
	11G	Ant1	2412	4.4361	10	-55.64	-80 to +20	PASS
			2442	4.4978	10	-55.02	-80 to +20	PASS
			2472	4.8641	10	-51.36	-80 to +20	PASS
	11N20SI SO	Ant1	2412	2.0464	2.5	-18.14	-80 to +20	PASS
			2442	2.3550	2.5	-5.80	-80 to +20	PASS
			2472	1.9275	2.5	-22.90	-80 to +20	PASS
	11N40SI SO	Ant1	2422	1.1588	2.5	-53.65	-80 to +20	PASS
			2442	0.9750	2.5	-61.00	-80 to +20	PASS
			2462	1.1803	2.5	-52.79	-80 to +20	PASS



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VERITAS

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EIRP								
Test Condition	Test Mode	Antenna	Freq(M Hz)	Result(dBm/ MHz)	EIRP(dBm/ MHz)	EIRP(mW/ MHz)	Limit(dBm/ MHz)	Verdict
NTNV	11B	Ant1	2412	8.64	8.40	6.92	≤12.14	PASS
			2442	8.17	7.93	6.21	≤12.14	PASS
			2472	8.78	8.54	7.14	≤12.14	PASS
	11G	Ant1	2412	6.47	6.23	4.20	≤12.14	PASS
			2442	6.53	6.29	4.26	≤12.14	PASS
			2472	6.87	6.63	4.60	≤12.14	PASS
	11N20SI SO	Ant1	2412	3.11	2.87	1.94	≤12.14	PASS
			2442	3.72	3.48	2.23	≤12.14	PASS
			2472	2.85	2.61	1.82	≤12.14	PASS
	11N40SI SO	Ant1	2422	0.64	0.40	1.10	≤9.13	PASS
			2442	-0.11	-0.35	0.92	≤9.13	PASS
			2462	0.72	0.48	1.12	≤9.13	PASS



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VERITAS

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OCCUPIED BANDWIDTH

TEST RESULT

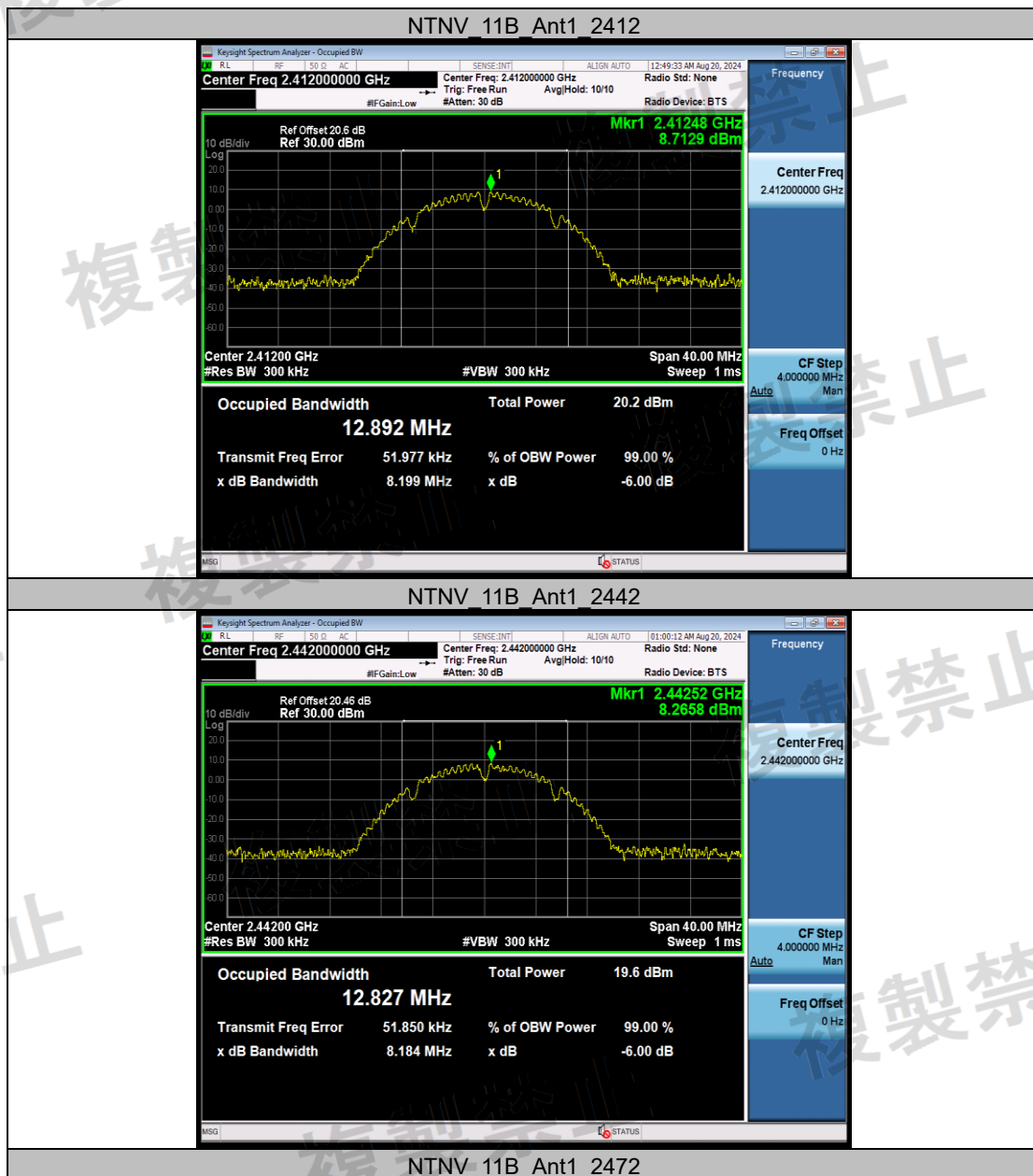
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	12.892	≤26	PASS
			2442	12.827	≤26	PASS
			2472	12.891	≤26	PASS
	11G	Ant1	2412	16.621	≤26	PASS
			2442	16.624	≤26	PASS
			2472	16.498	≤26	PASS
	11N20SI SO	Ant1	2412	17.606	≤26	PASS
			2442	17.597	≤26	PASS
			2472	17.613	≤26	PASS
	11N40SI SO	Ant1	2422	36.060	26-40	PASS
			2442	35.865	26-40	PASS
			2462	36.054	26-40	PASS



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VERITAS

Test Report No.: PSU-QBJ2506170217RJ03

TEST GRAPHS



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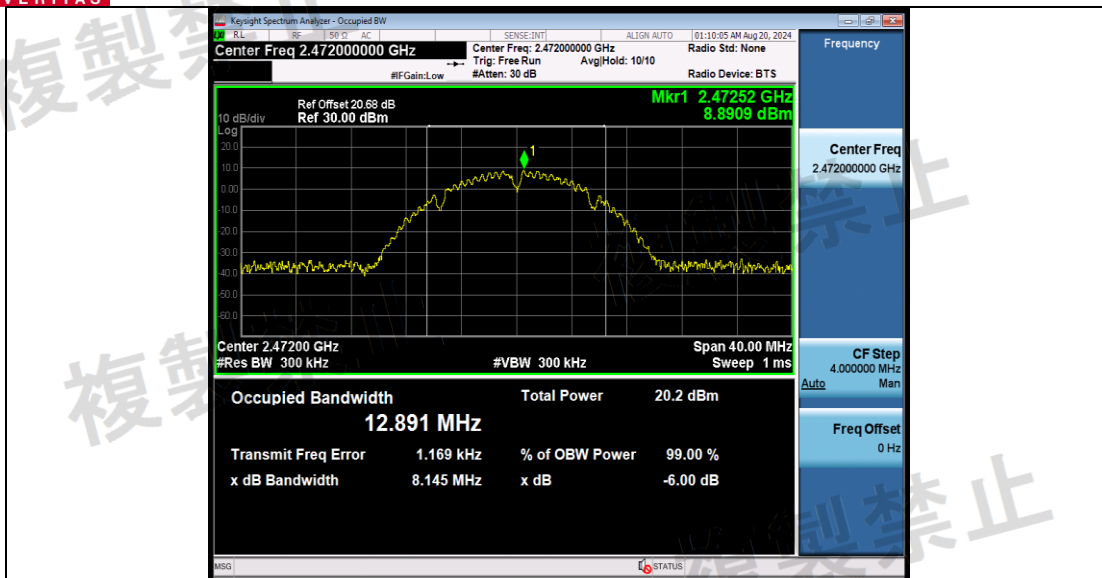
Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008

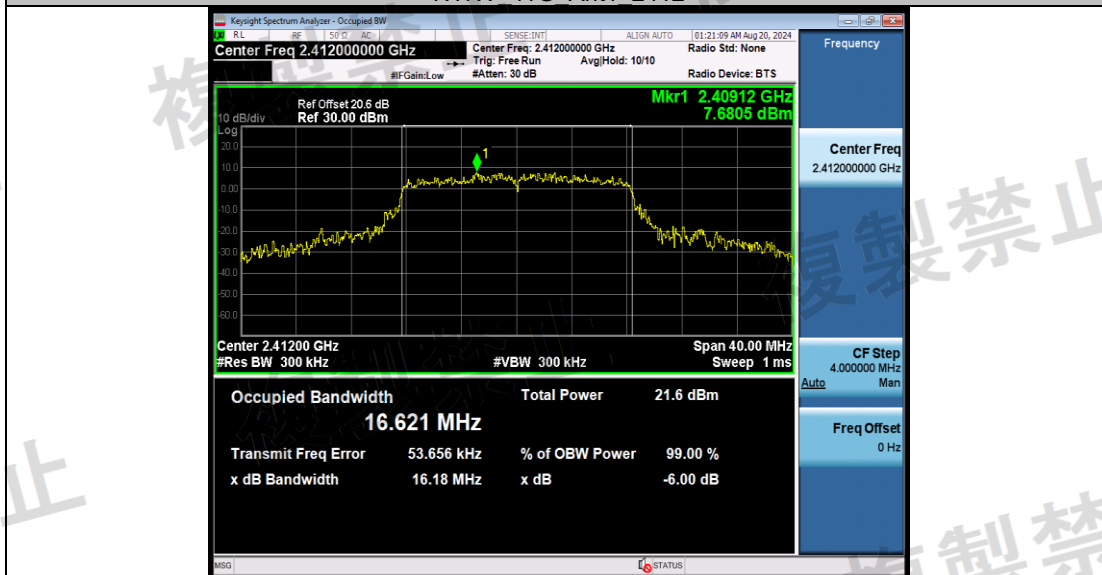


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NTNV 11G Ant1 2412



NTNV 11G Ant1 2442

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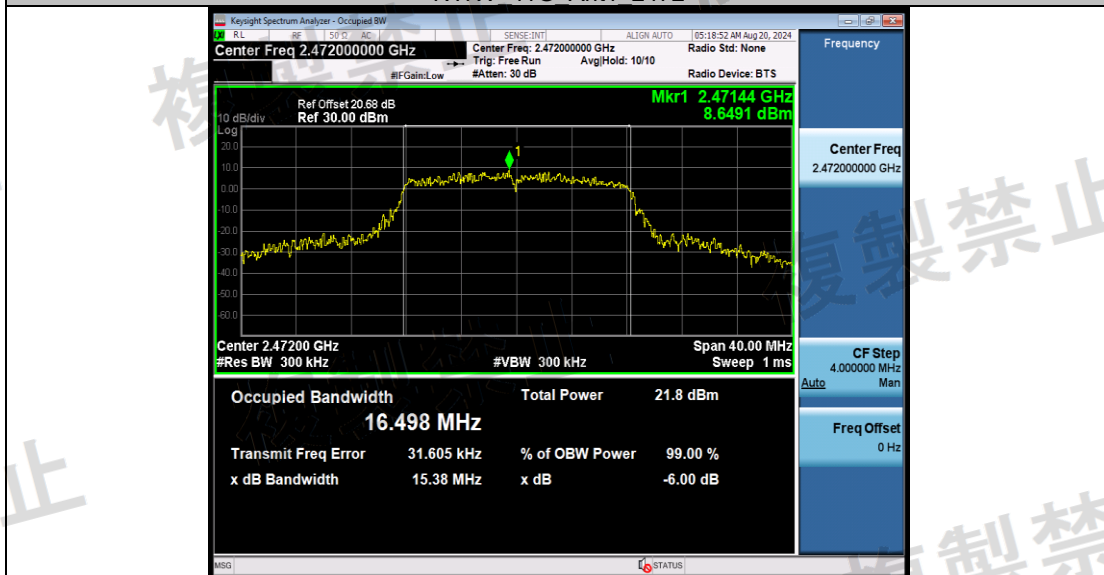


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NTNV 11G Ant1 2472



NTNV 11N20SISO Ant1 2412

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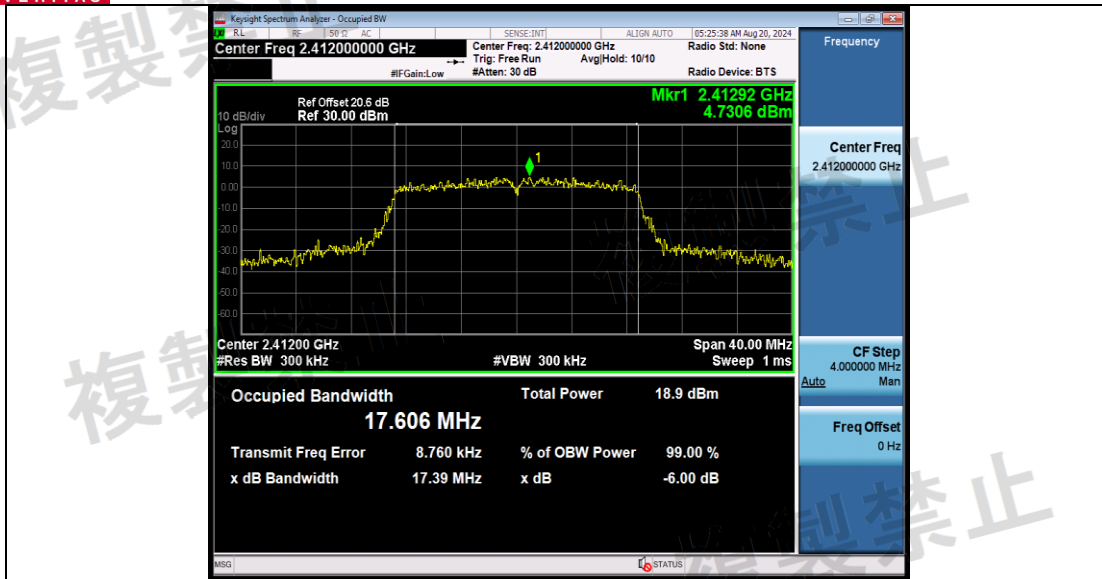
Tower N, Innovation Center, 88 Zuyi Road, High-tech
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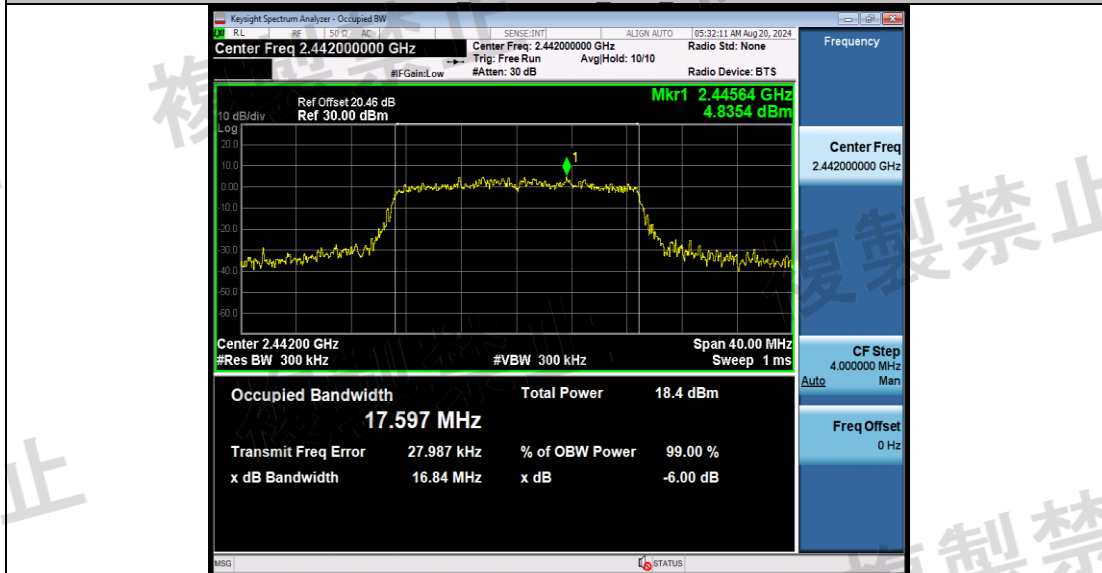


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NTNV_11N20SISO Ant1 2442

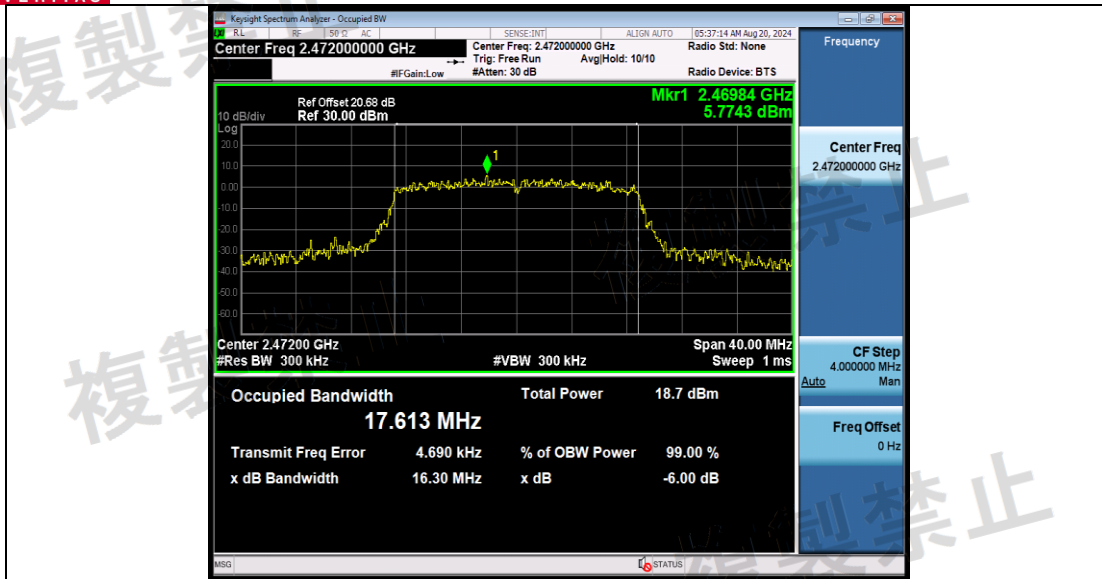


NTNV_11N20SISO Ant1 2472



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Test Report No.: PSU-QBJ2506170217RJ03



NTNV_11N40SISO Ant1 2422



NTNV_11N40SISO Ant1 2442

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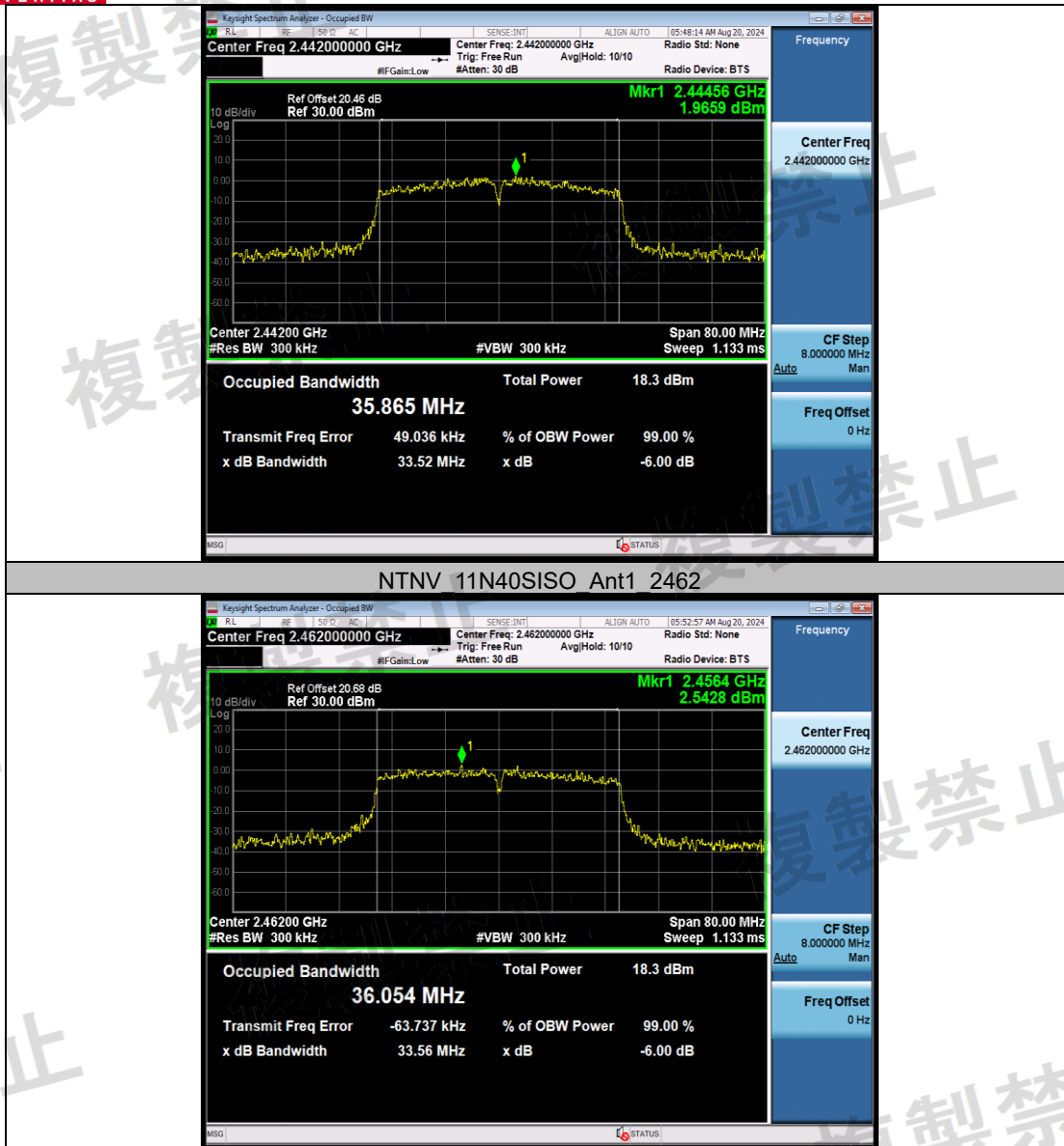
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SPREAD BANDWIDTH

TEST RESULT

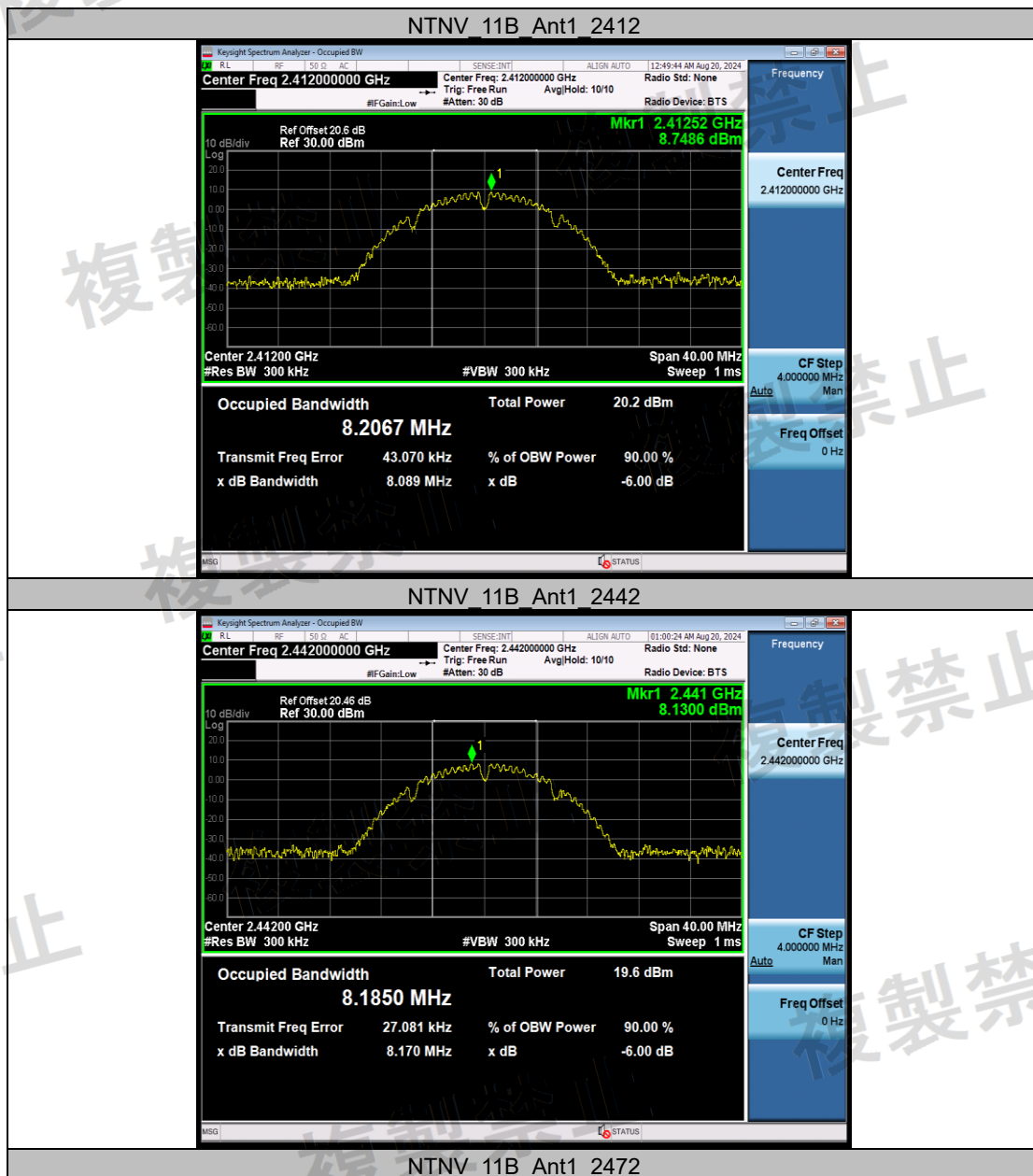
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	11B	Ant1	2412	8.207	≥ 0.5	5.969	>5	PASS
			2442	8.185	≥ 0.5	5.953	>5	PASS
			2472	8.272	≥ 0.5	6.016	>5	PASS
	11G	Ant1	2412	14.366	≥ 0.5	---	---	PASS
			2442	13.845	≥ 0.5	---	---	PASS
			2472	14.119	≥ 0.5	---	---	PASS
	11N20SI SO	Ant1	2412	15.114	≥ 0.5	---	---	PASS
			2442	14.782	≥ 0.5	---	---	PASS
			2472	14.871	≥ 0.5	---	---	PASS
	11N40SI SO	Ant1	2422	31.288	≥ 0.5	---	---	PASS
			2442	29.603	≥ 0.5	---	---	PASS
			2462	30.842	≥ 0.5	---	---	PASS



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TEST GRAPHS



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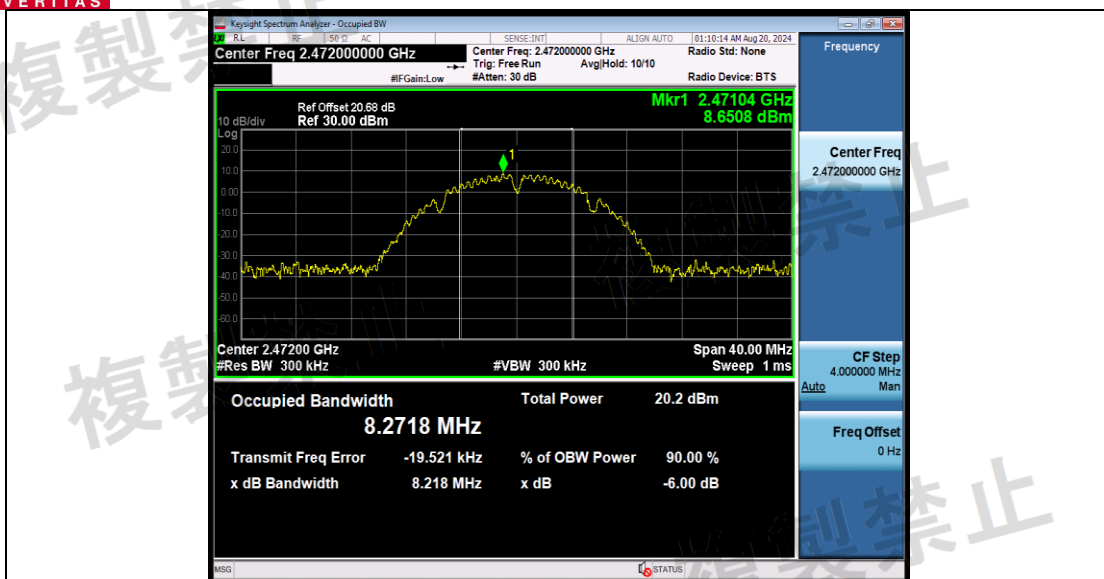
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NTNV 11G Ant1 2412



NTNV 11G Ant1 2442

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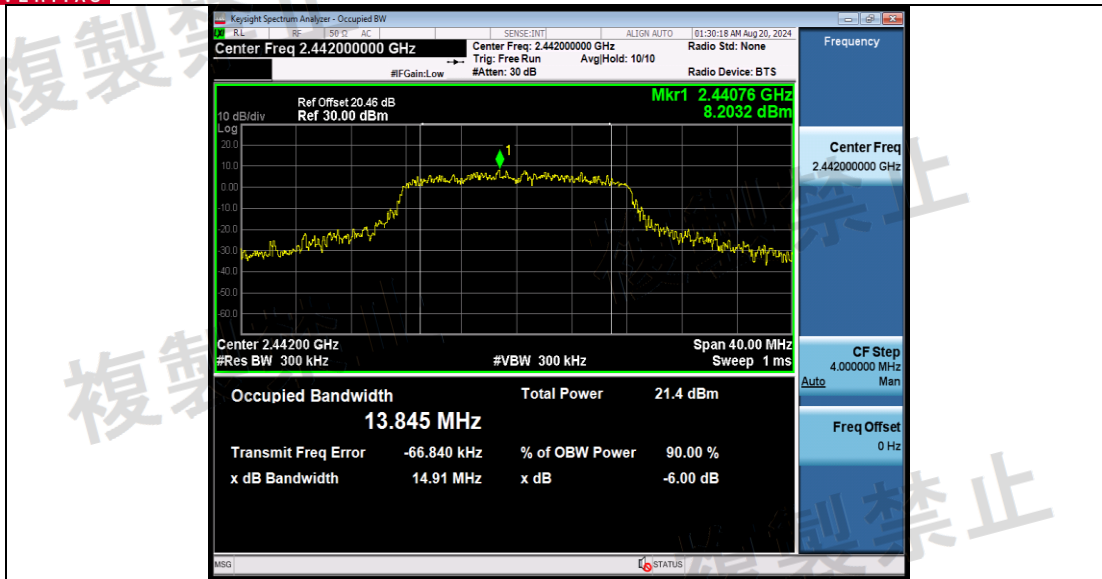
Tower N, Innovation Center, 88 Zuyi Road, High-tech
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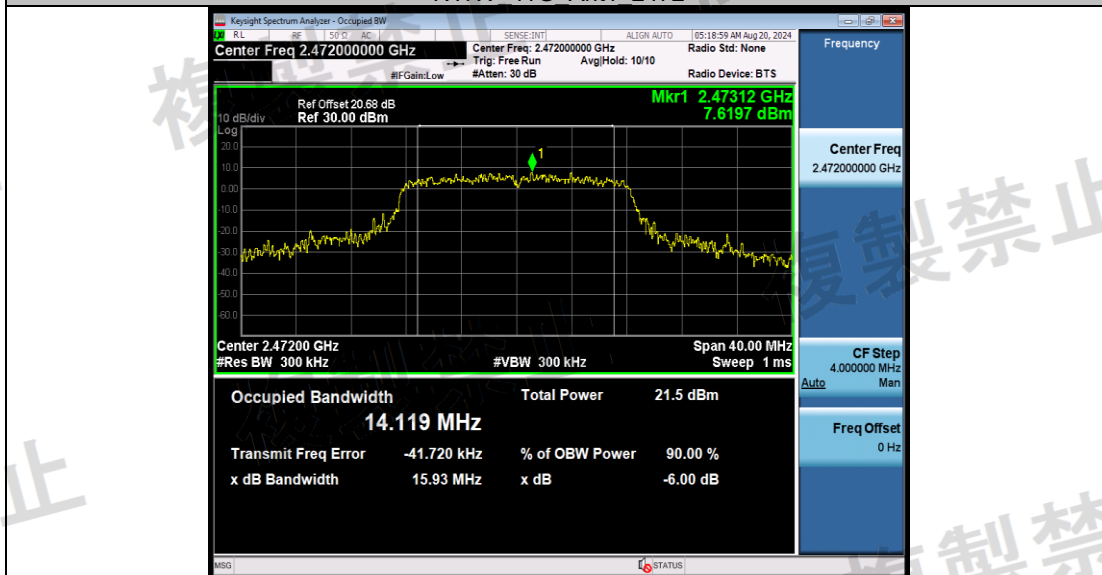


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Test Report No.: PSU-QBJ2506170217RJ03



NTNV 11G Ant1 2472



NTNV 11N20SISO Ant1 2412

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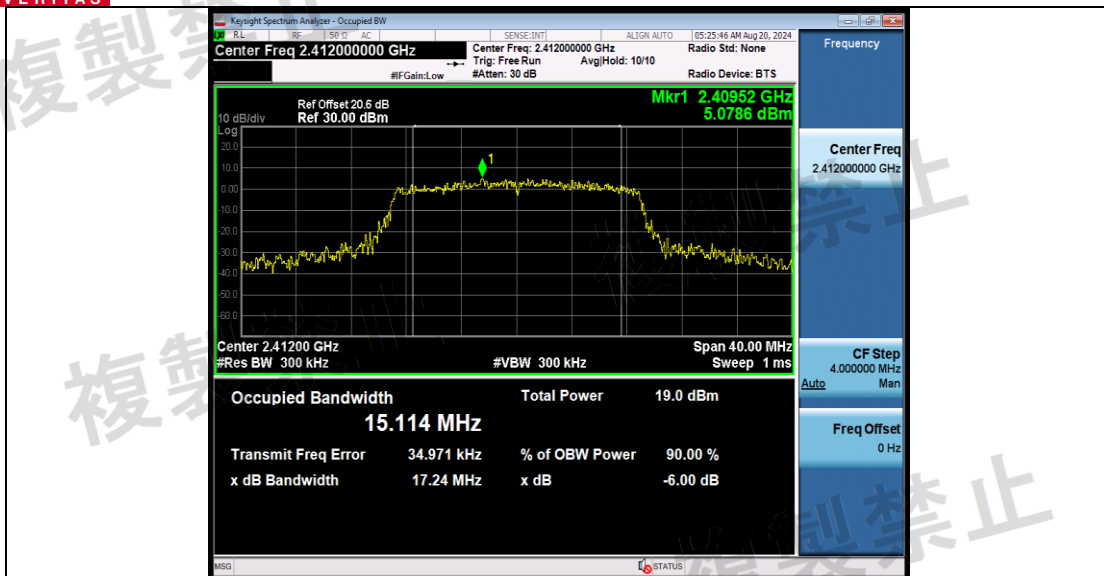
Tower N, Innovation Center, 88 Zuyi Road, High-tech
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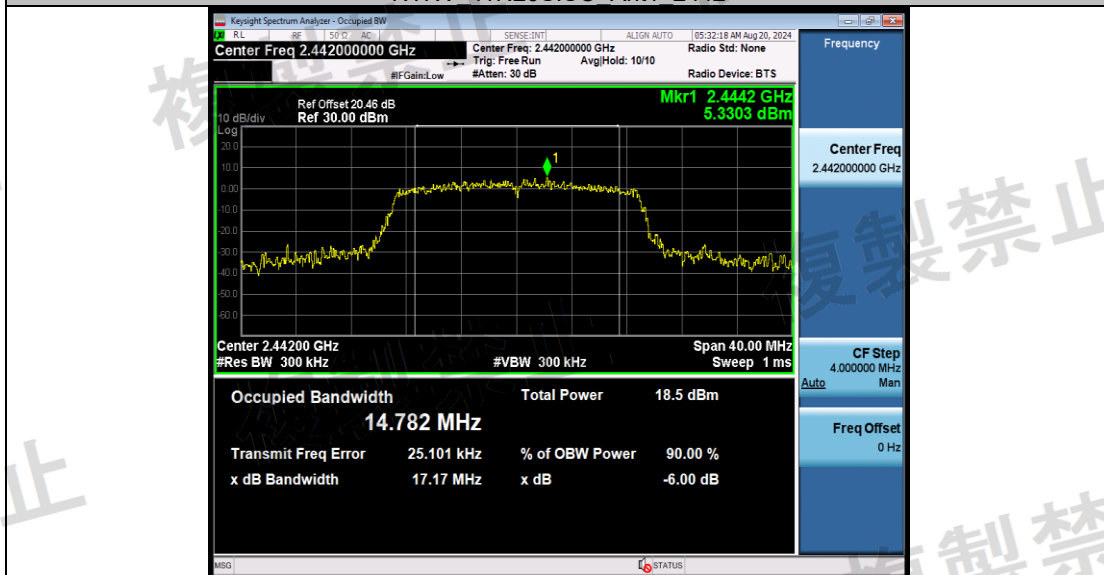


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NTNV_11N20SISO Ant1 2442



NTNV_11N20SISO Ant1 2472

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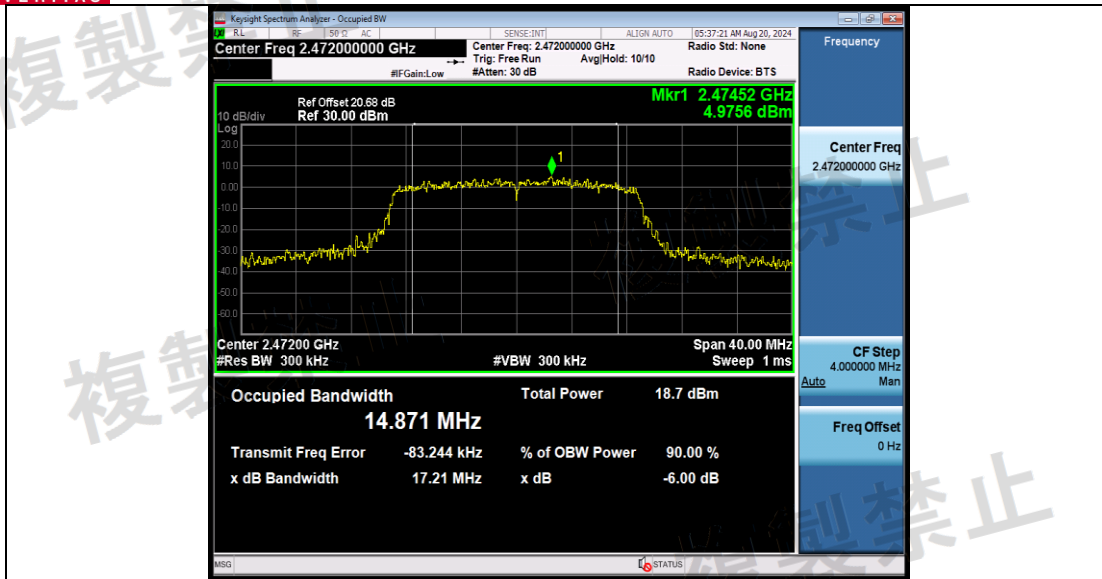
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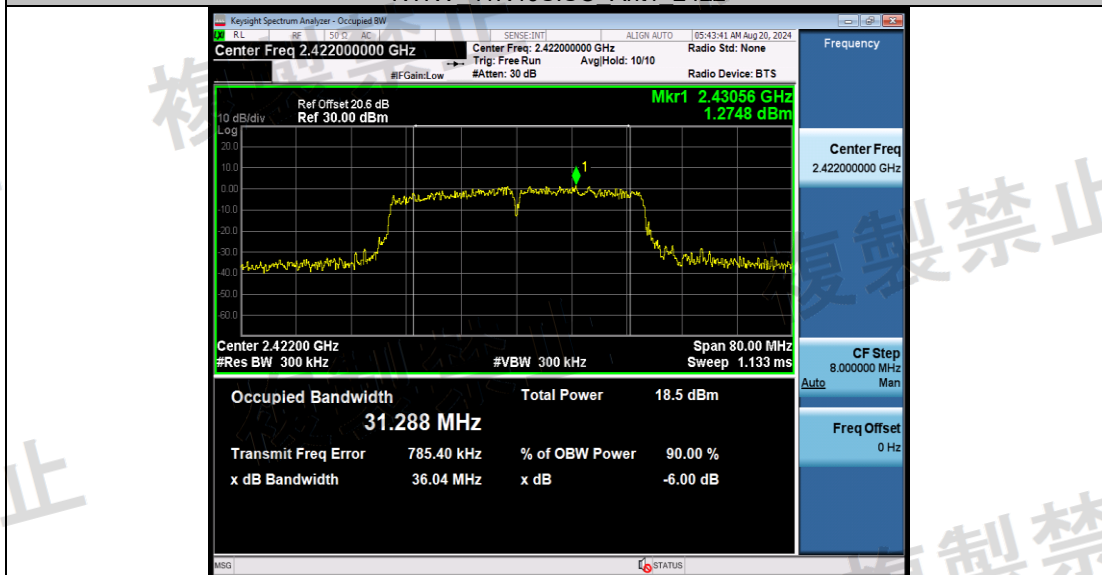


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NTNV 11N40SISO Ant1 2422



NTNV 11N40SISO Ant1 2442

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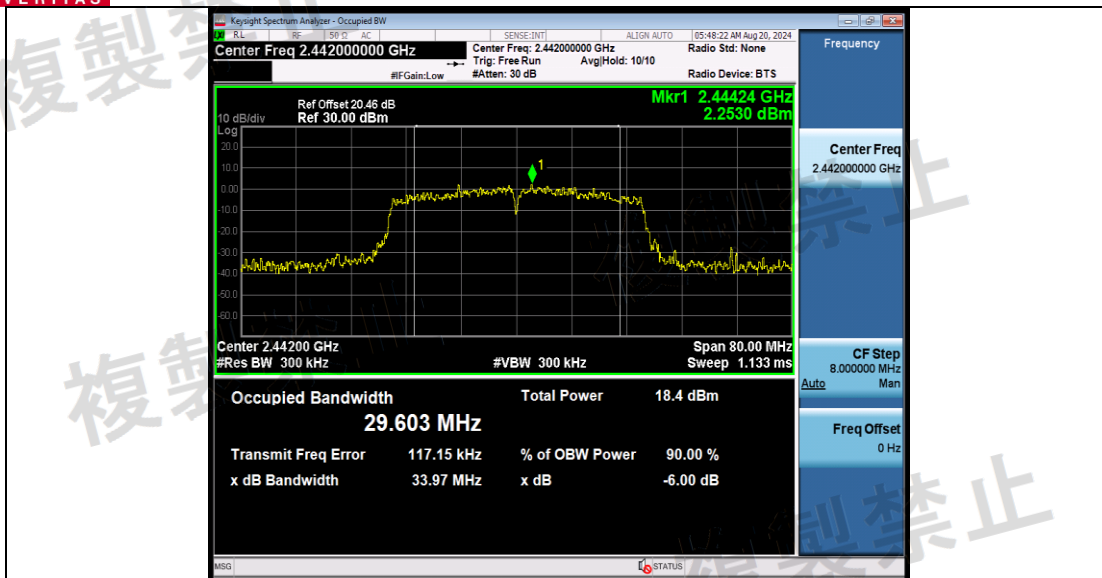
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NTNV 11N40SISO Ant1 2462



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SPURIOUS EMISSION OF TX

TEST RESULT

TestCondition	TestMode	Antenna	Channel (MHz)	Freq.Range [MHz]	Freq (MHz)	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	840.19	-33.55	≤-26	0.44157	≤2.5	PASS
				1000~2387	1948.36	-32.84	≤-26	0.52000	≤2.5	PASS
				2387~2400	2399.75	-24.32	≤-16	3.69828	≤25	PASS
				2483.5~2496.5	2494.20	-24.45	≤-16	3.58922	≤25	PASS
				2496.5~13000	4824.08	-38.86	≤-26	0.13002	≤2.5	PASS
			2442	30~1000	958.05	-33.67	≤-26	0.42954	≤2.5	PASS
				1000~2387	2362.73	-32.51	≤-26	0.56105	≤2.5	PASS
				2387~2400	2393.72	-24.56	≤-16	3.49945	≤25	PASS
				2483.5~2496.5	2490.03	-24.34	≤-16	3.68129	≤25	PASS
				2496.5~13000	4883.95	-41.54	≤-26	0.07015	≤2.5	PASS
			2472	30~1000	830.98	-33.71	≤-26	0.42560	≤2.5	PASS
				1000~2387	2306.21	-32.94	≤-26	0.50816	≤2.5	PASS
				2387~2400	2392.86	-23.97	≤-16	4.00867	≤25	PASS
				2483.5~2496.5	2486.76	-23.69	≤-16	4.27563	≤25	PASS
				2496.5~13000	4943.82	-39.03	≤-26	0.12503	≤2.5	PASS
	11G	Ant1	2412	30~1000	871.23	-33.16	≤-26	0.48306	≤2.5	PASS
				1000~2387	2386.65	-27.09	≤-26	1.95434	≤2.5	See table below
				2387~2400	2399.85	-6.30	≤-16	234.42288	≤25.1	See table below
				2483.5~2496.5	2488.10	-24.17	≤-16	3.82825	≤25	PASS
				2496.5~13000	5746.81	-43.14	≤-26	0.04853	≤2.5	PASS
			2442	30~1000	925.31	-33.66	≤-26	0.43053	≤2.5	PASS
				1000~2387	2285.06	-32.91	≤-26	0.51168	≤2.5	PASS
				2387~2400	2396.95	-24.30	≤-16	3.71535	≤25	PASS
				2483.5~2496.5	2487.54	-24.51	≤-16	3.53997	≤25	PASS
				2496.5~13000	5182.2	-41.59	≤-26	0.06934	≤2.5	PASS

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VERITAS

Test Report No.: PSU-QBJ2506170217RJ03

	11N20SI SO	Ant1	2472		4					
				30~1000	992.24	-33.17	≤-26	0.48195	≤2.5	PASS
				1000~2387	2384.9 2	-32.44	≤-26	0.57016	≤2.5	PASS
				2387~2400	2393.3 2	-24.34	≤-16	3.68129	≤25	PASS
				2483.5~2496.5	2483.6	-4.97	≤-16	318.419 75	≤25.1	See table below
				2496.5~13000	4944.3 4	-42.44	≤-26	0.05702	≤2.5	PASS
			2412	30~1000	858.14	-33.12	≤-26	0.48753	≤2.5	PASS
				1000~2387	2387.0 0	-30.66	≤-26	0.85901	≤2.5	PASS
				2387~2400	2399.9 2	-9.49	≤-16	112.460 50	≤25.1	See table below
				2483.5~2496.5	2491.7 0	-24.03	≤-16	3.95367	≤25	PASS
				2496.5~13000	5750.4 8	-42.02	≤-26	0.06281	≤2.5	PASS
	11N40SI SO	Ant1	2442	30~1000	831.22	-26.11	≤-26	2.44906	≤2.5	See table below
				1000~2387	2355.7 9	-32.80	≤-26	0.52481	≤2.5	PASS
				2387~2400	2396.0 2	-24.04	≤-16	3.94457	≤25	PASS
				2483.5~2496.5	2491.1 6	-23.45	≤-16	4.51856	≤25	PASS
				2496.5~13000	5752.0 6	-44.36	≤-26	0.03664	≤2.5	PASS
			2472	30~1000	825.64	-24.86	≤-26	3.26588	≤2.5	See table below
				1000~2387	2352.6 7	-32.67	≤-26	0.54075	≤2.5	PASS
				2387~2400	2387.8 4	-23.70	≤-16	4.26580	≤25	PASS
				2483.5~2496.5	2483.8 1	-13.36	≤-16	46.1317 6	≤25.1	See table below
				2496.5~13000	5744.1 8	-45.37	≤-26	0.02904	≤2.5	PASS
	11N40SI SO	Ant1	2422	30~1000	823.95	-33.28	≤-26	0.46989	≤2.5	PASS
				1000~2387	2385.6 1	-26.02	≤-26	2.50035	≤2.5	See table below
				2387~2400	2399.8 8	-20.19	≤-16	9.57194	≤25	PASS
				2483.5~2496.5	2484.9 0	-23.85	≤-16	4.12098	≤25	PASS
				2496.5~13000	5741.5	-44.19	≤-26	0.03811	≤2.5	PASS

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Test Report No.: PSU-QBJ2506170217RJ03

					6					
				2442	30~1000	778.11	-33.11	≤-26	0.48865	≤2.5 PASS
					1000~2387	2387.0 0	-30.26	≤-26	0.94189	≤2.5 PASS
					2387~2400	2398.2 8	-22.33	≤-16	5.84790	≤25 PASS
					2483.5~2496.5	2487.4 8	-24.05	≤-16	3.93550	≤25 PASS
					2496.5~13000	5742.0 8	-42.28	≤-26	0.05916	≤2.5 PASS
				2462	30~1000	927.01	-33.53	≤-26	0.44361	≤2.5 PASS
					1000~2387	2359.2 6	-32.23	≤-26	0.59841	≤2.5 PASS
					2387~2400	2390.6 7	-24.31	≤-16	3.70681	≤25 PASS
					2483.5~2496.5	2486.5 4	-20.28	≤-16	9.37562	≤25 PASS
					2496.5~13000	2496.5 0	-33.22	≤-26	0.47643	≤2.5 PASS

TEST RESULT_STEP2

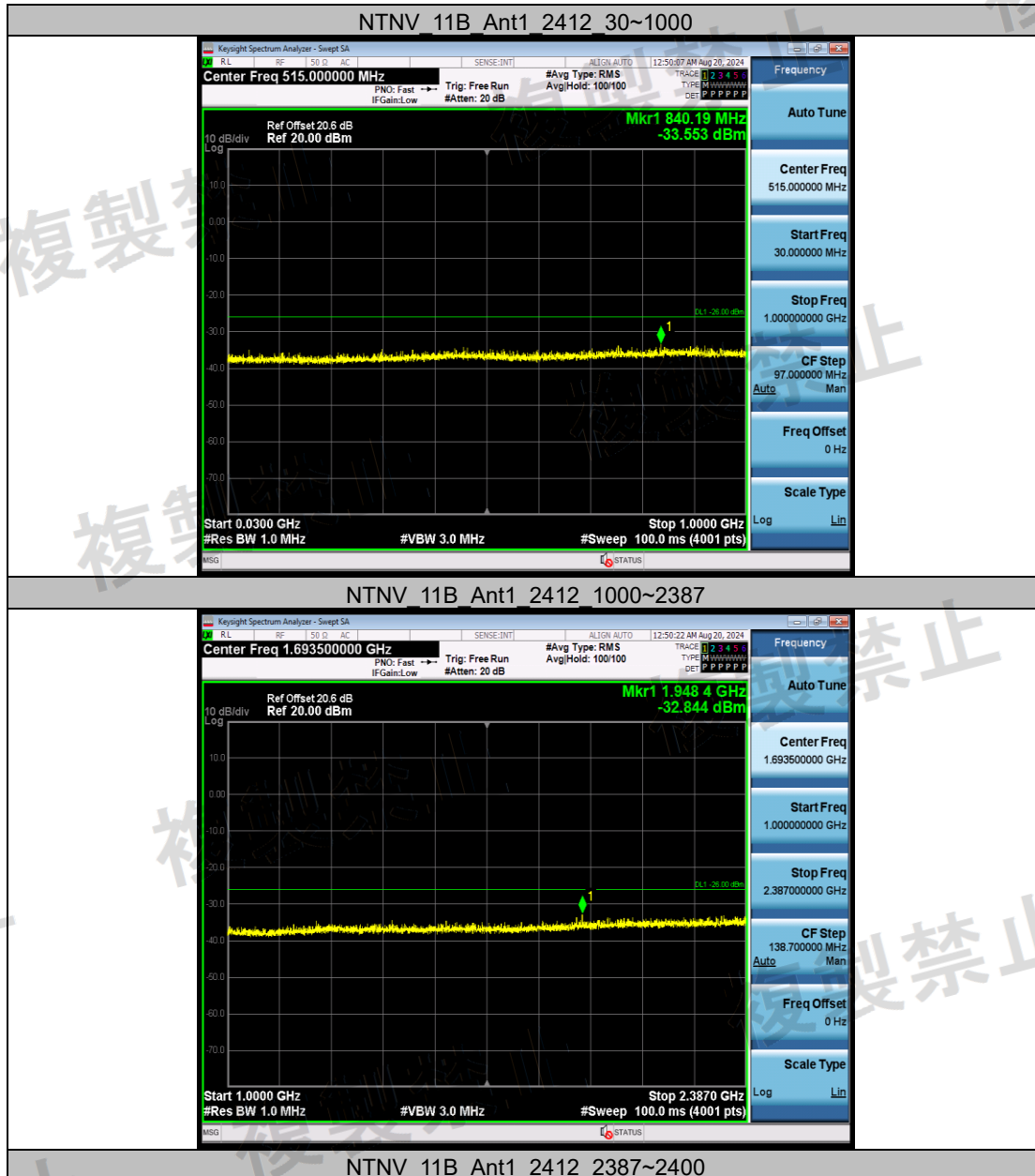
TestCondition	TestMode	PreScan In Ant	Channel	Ant	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11G	Ant1	2412	Ant1	2386.32	-37.30	≤-26	0.18621	≤2.5	PASS
				Ant1	2399.80	-23.33	≤-16	4.64515	≤25	PASS
			2472	Ant1	2483.52	-25.46	≤-16	2.84446	≤25	PASS
	11N20SI SO	Ant1	2412	Ant1	2399.49	-31.31	≤-16	0.73961	≤25	PASS
			2442	Ant1	831.77	-49.16	≤-26	0.01213	≤2.5	PASS
			2472	Ant1	798.27	-67.28	≤-26	0.00019	≤2.5	PASS
				Ant1	2483.93	-26.53	≤-16	2.22331	≤25	PASS
	11N40SI SO	Ant1	2422	Ant1	2386.64	-36.00	≤-26	0.25119	≤2.5	PASS



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TEST GRAPHS



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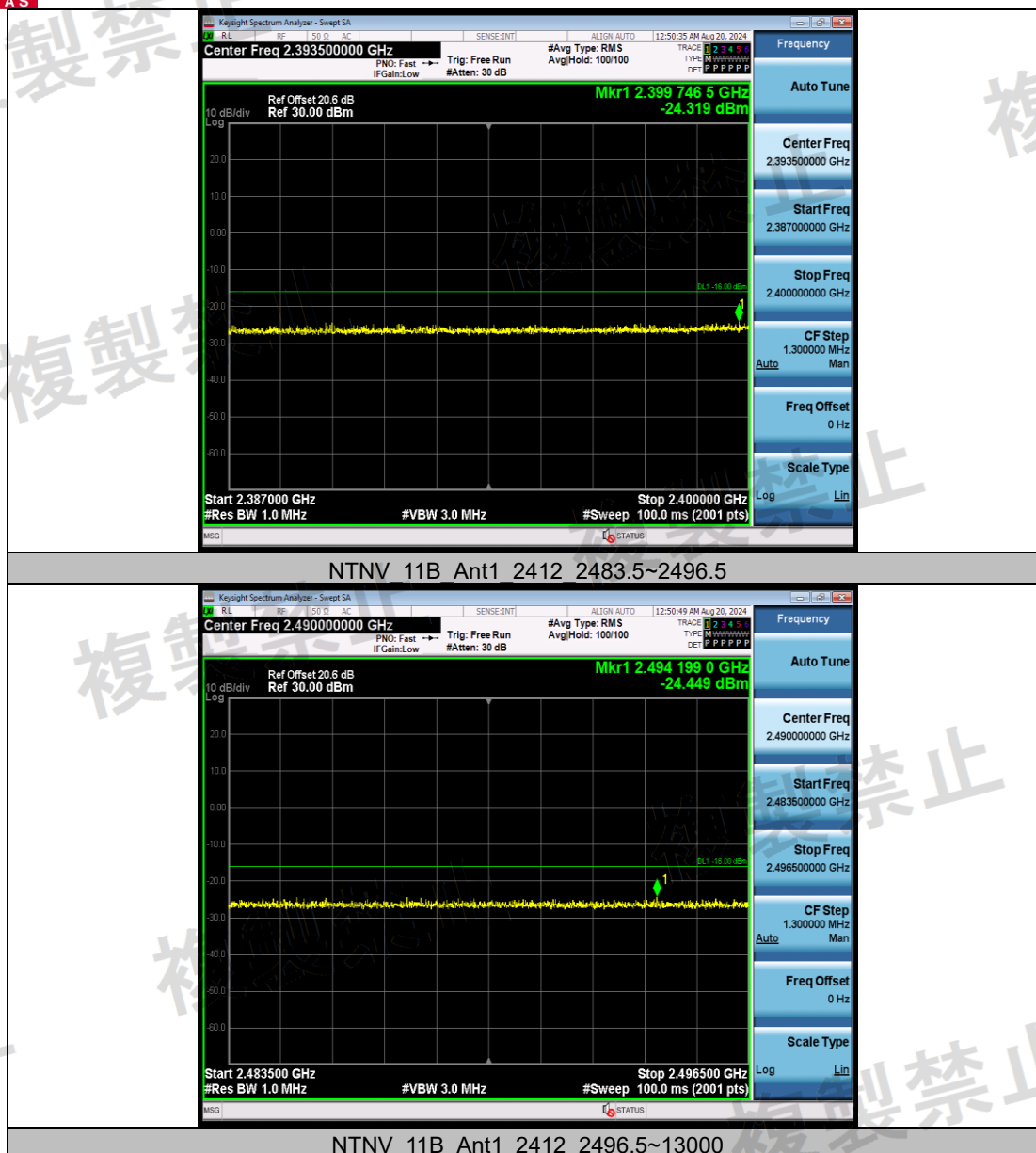
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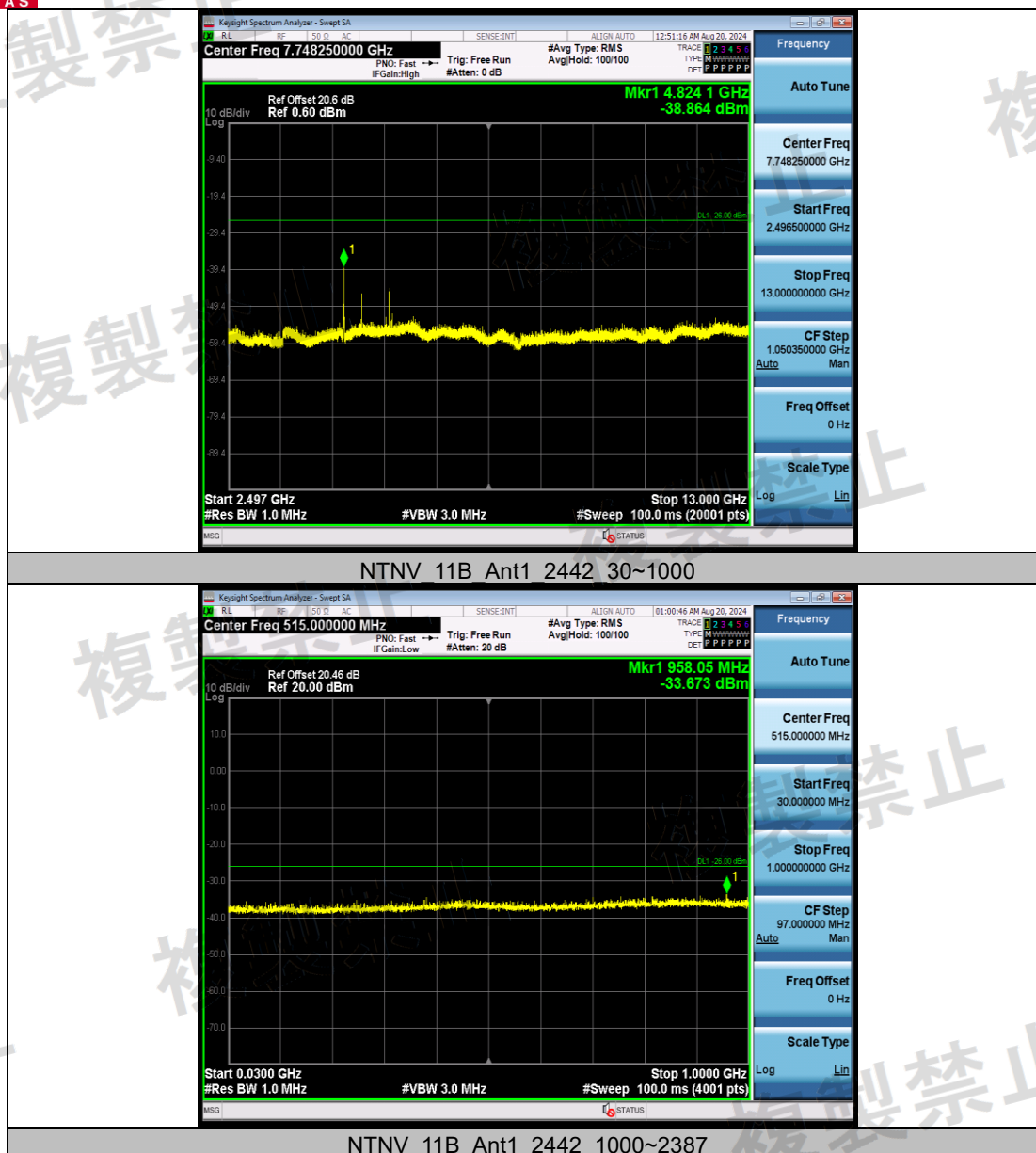
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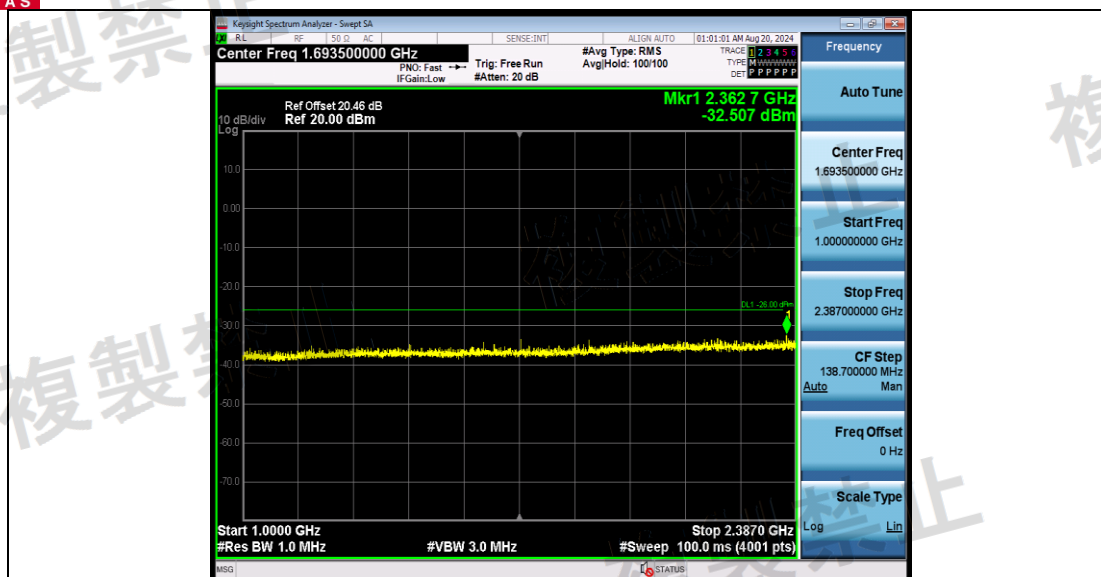
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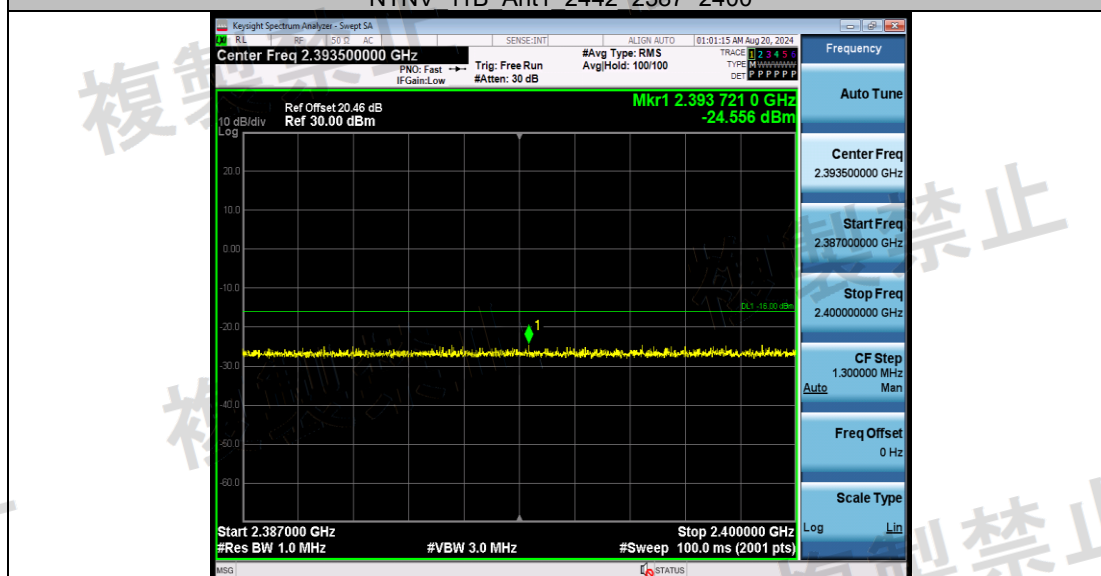


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NTNV 11B Ant1 2442 2387~2400



NTNV 11B Ant1 2442 2483.5~2496.5

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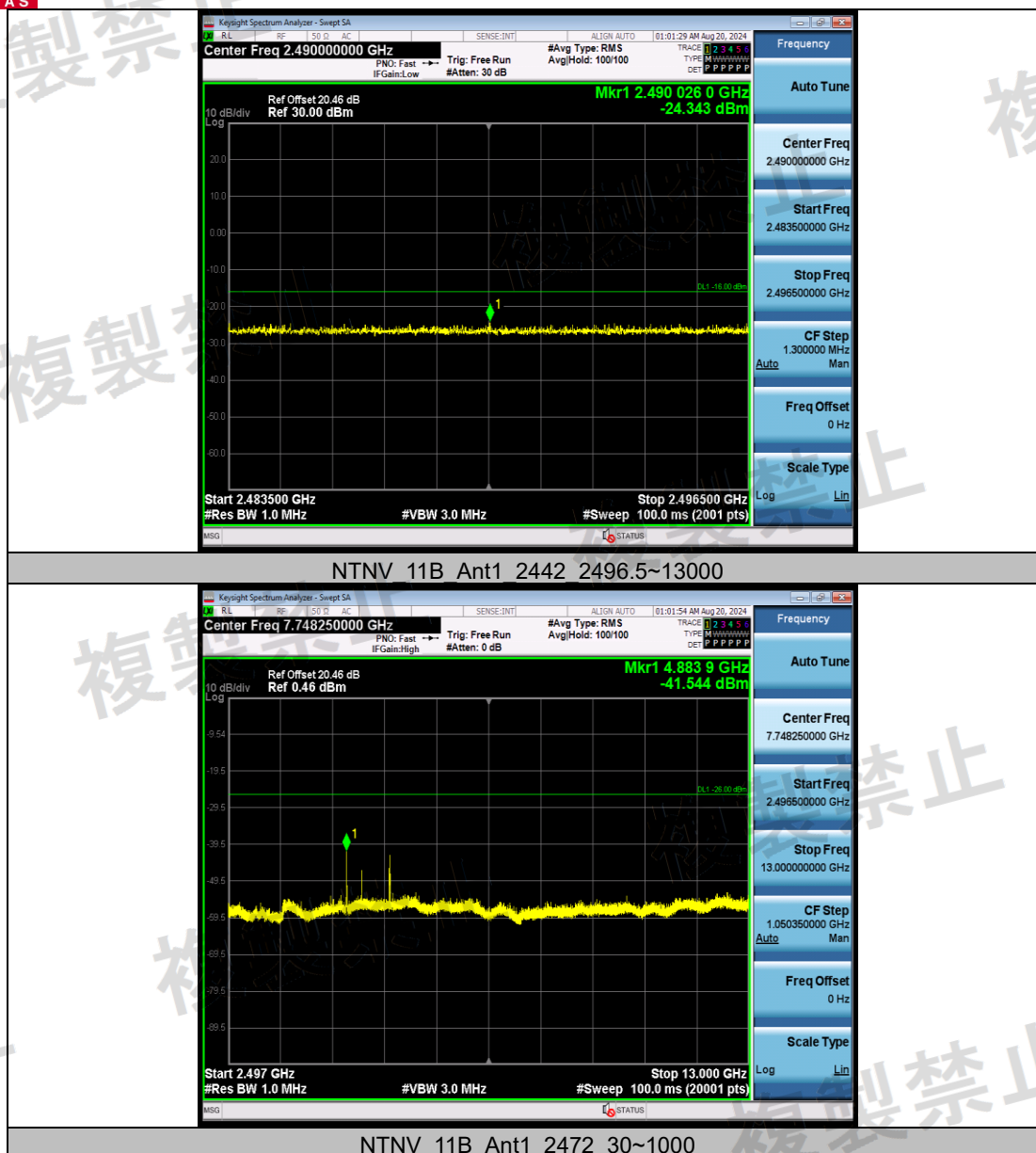
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NTNV_11B_Ant1_2472_1000~2387

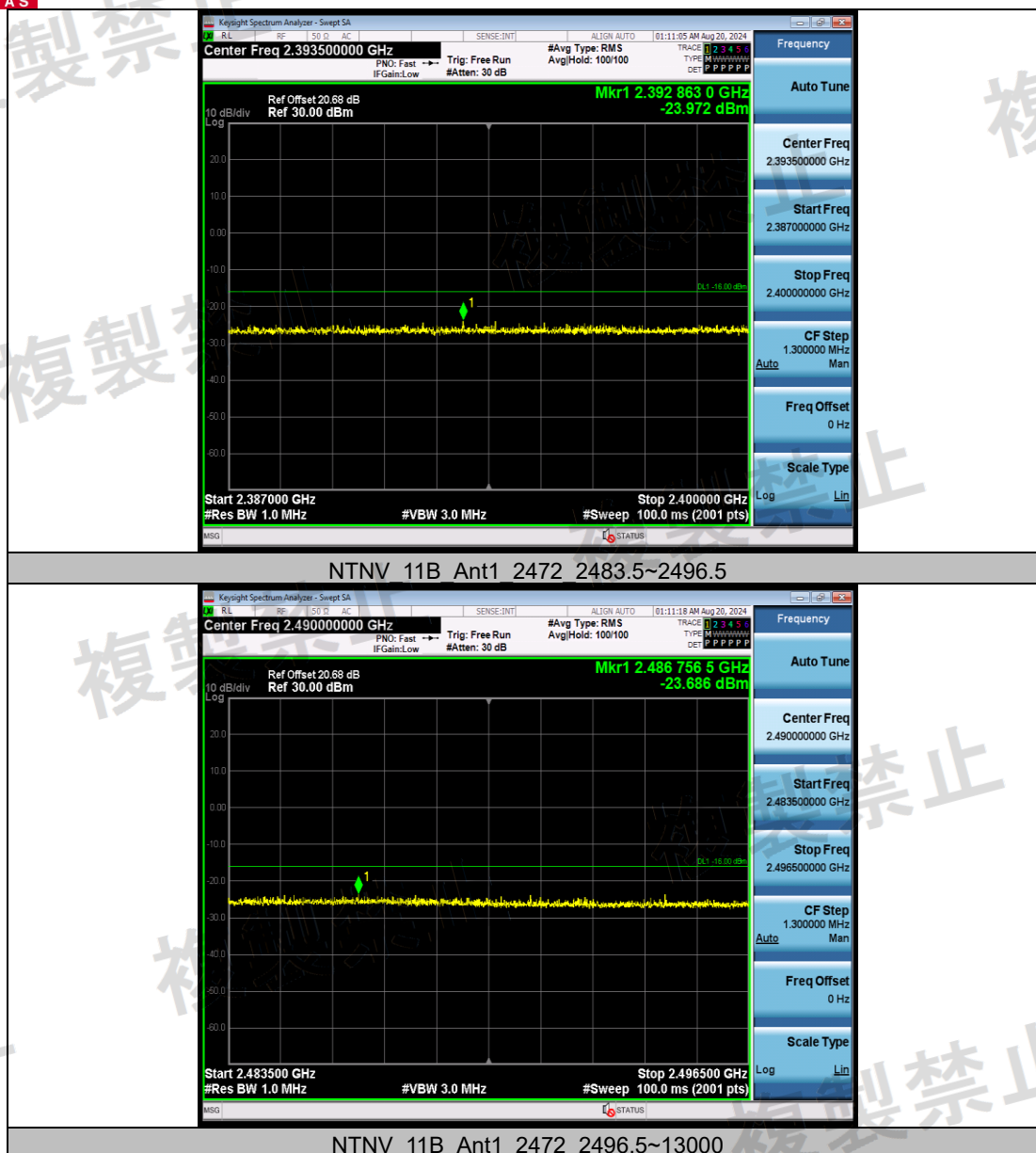


NTNV_11B_Ant1_2472_2387~2400



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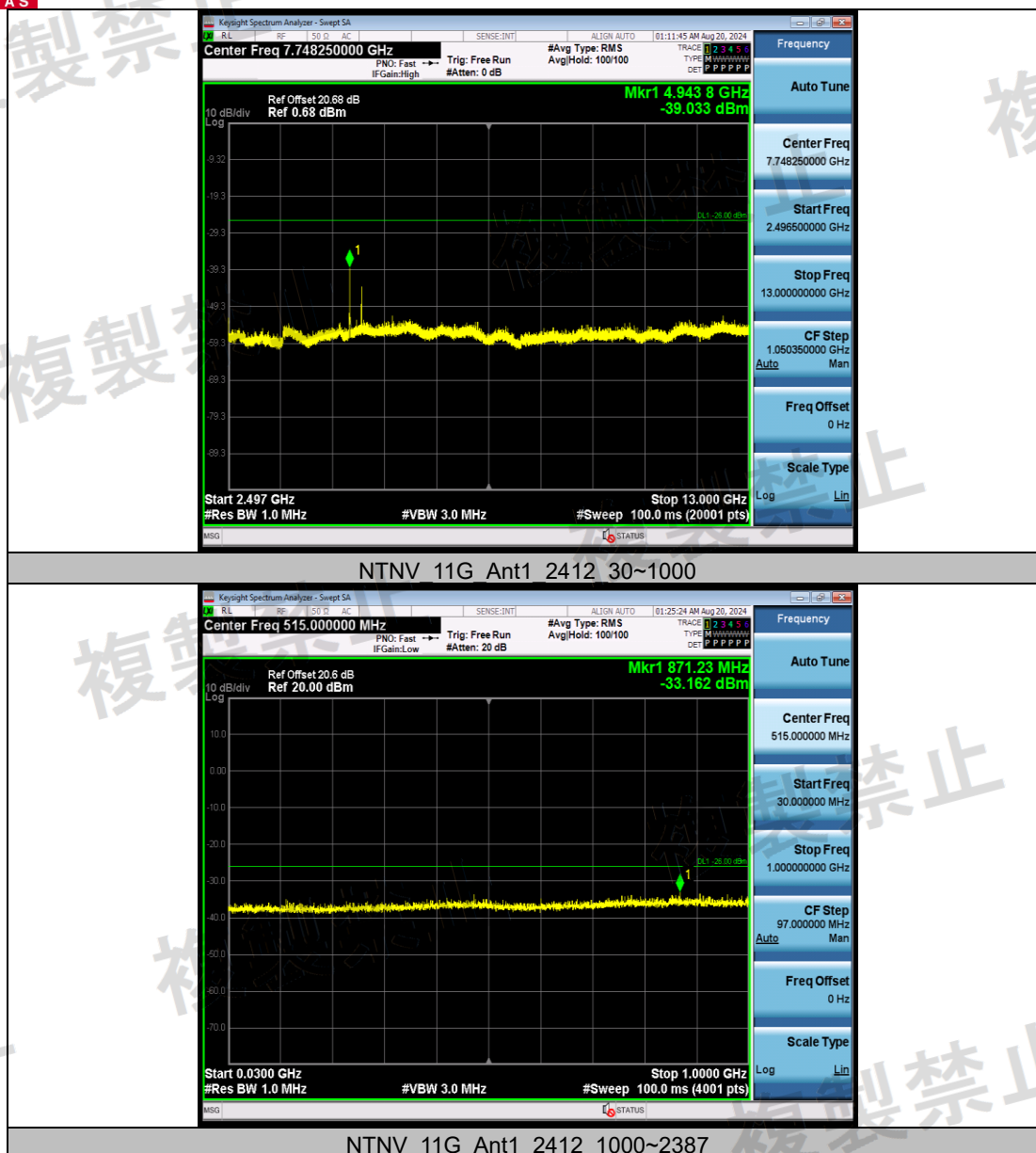
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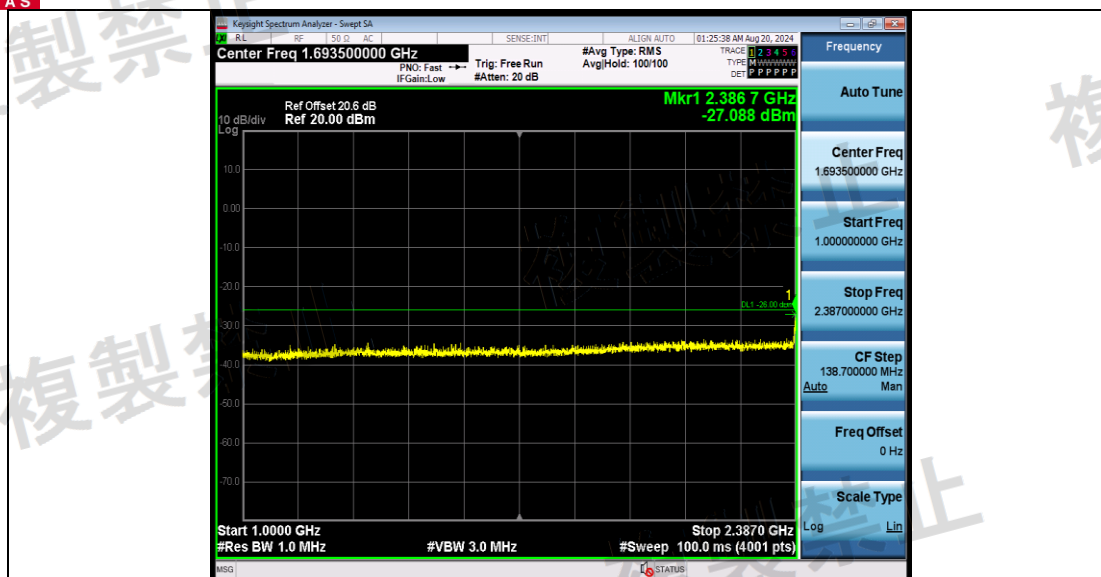
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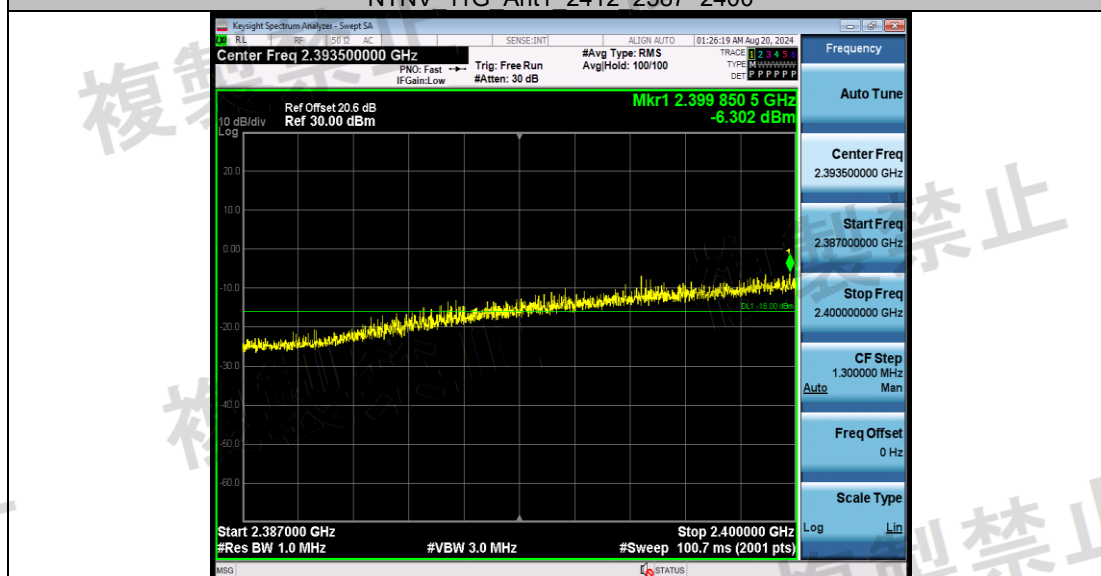


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NTNV 11G Ant1 2412 2387~2400

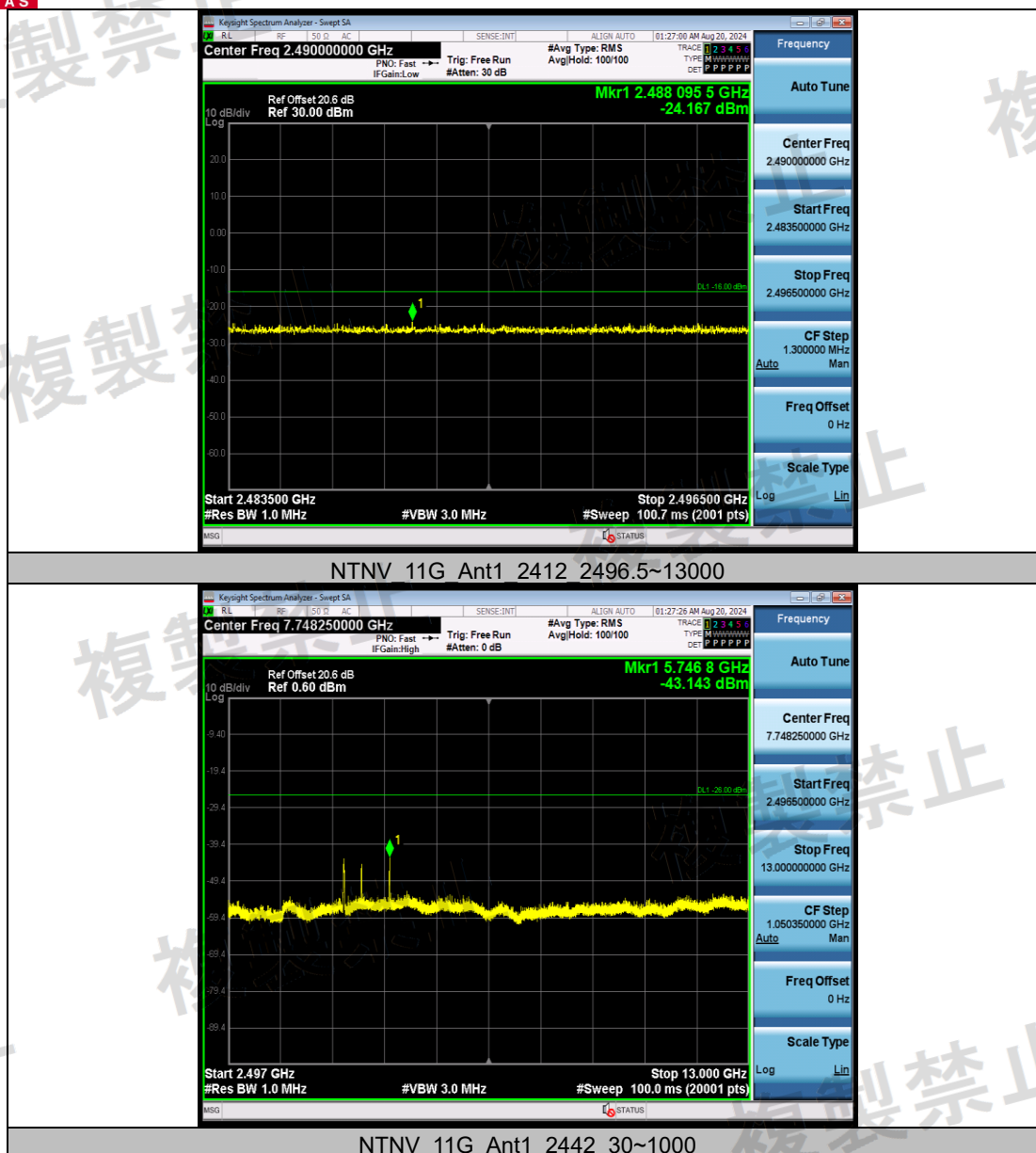


NTNV 11G Ant1 2412 2483.5~2496.5



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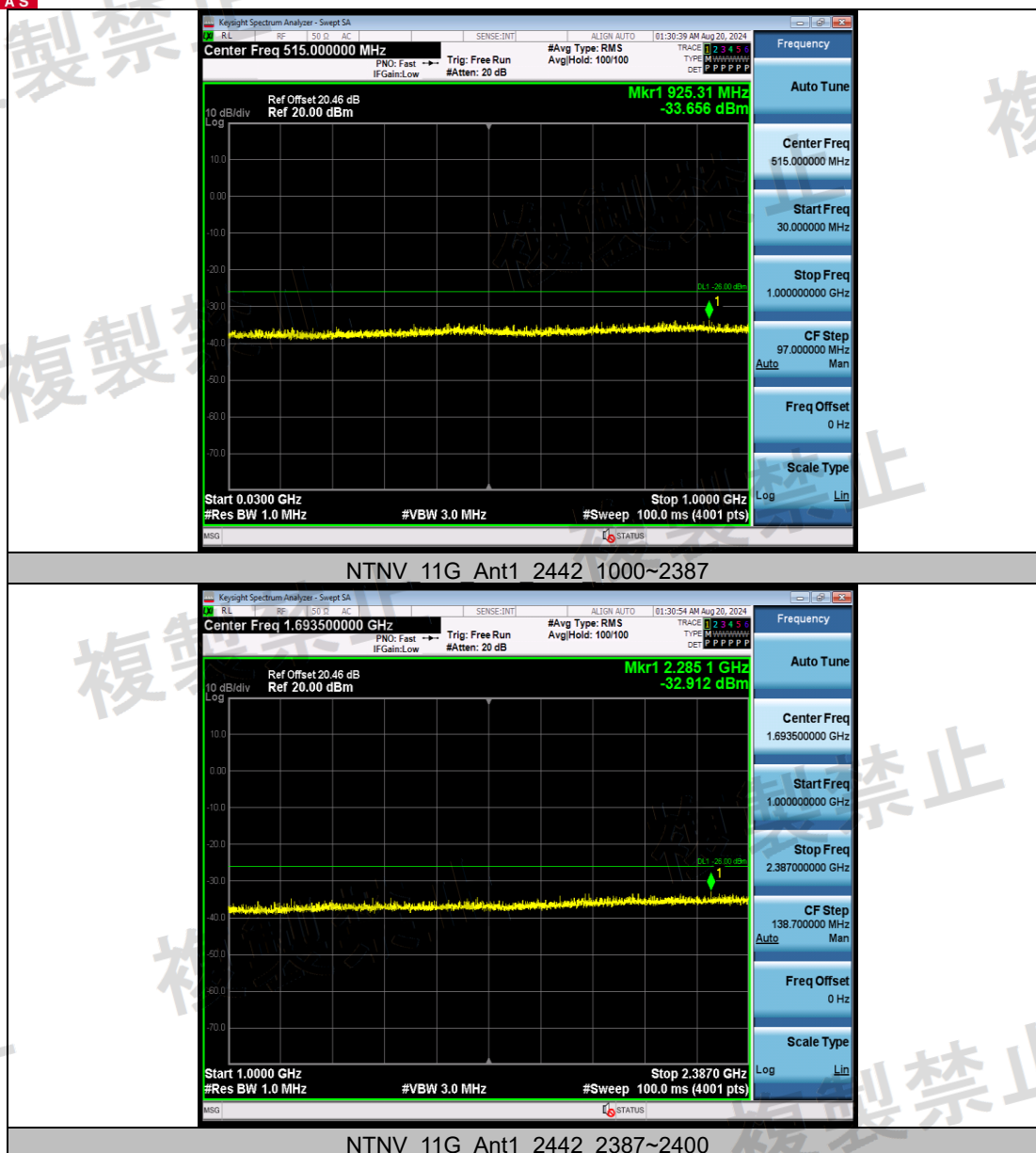
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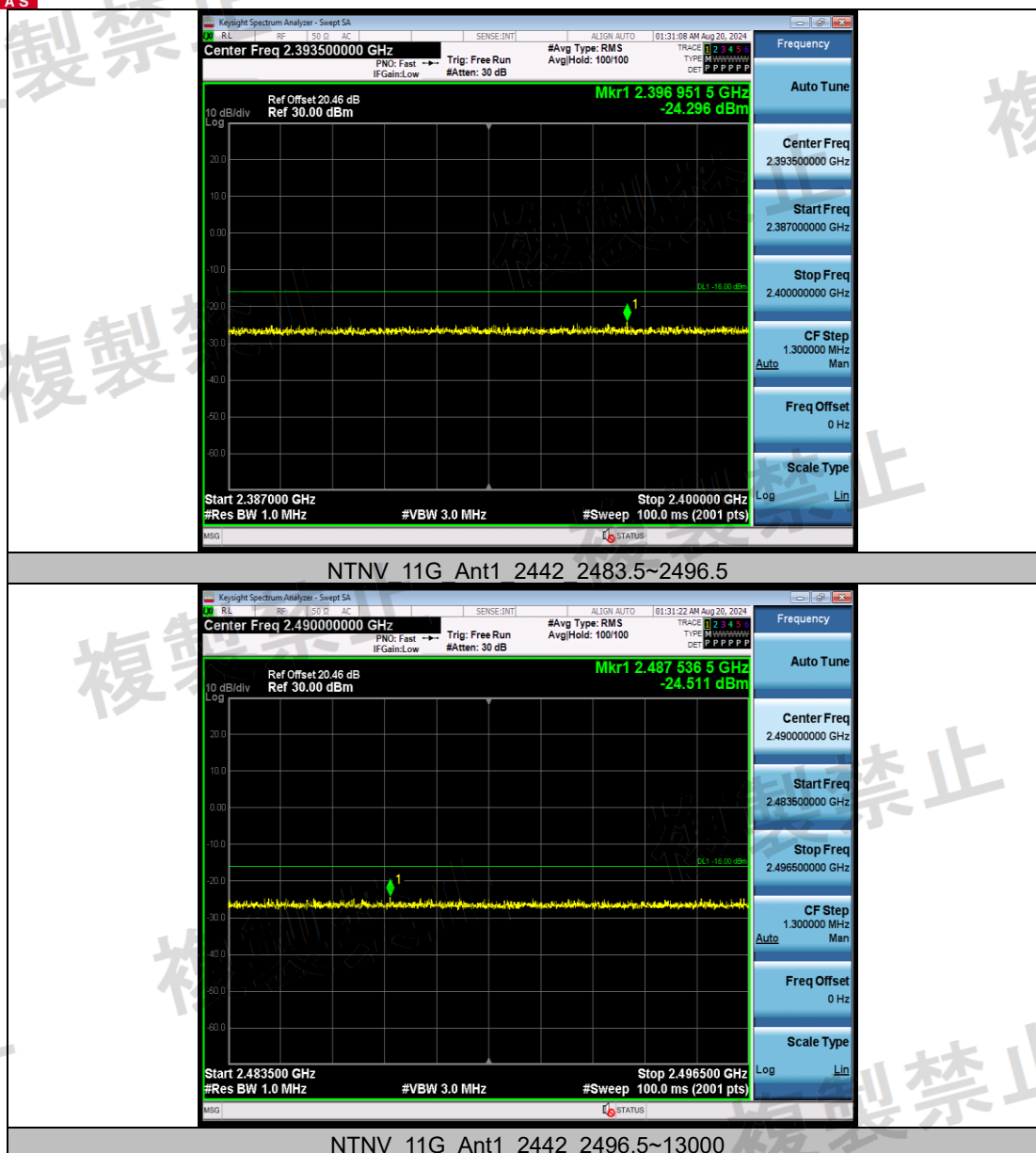
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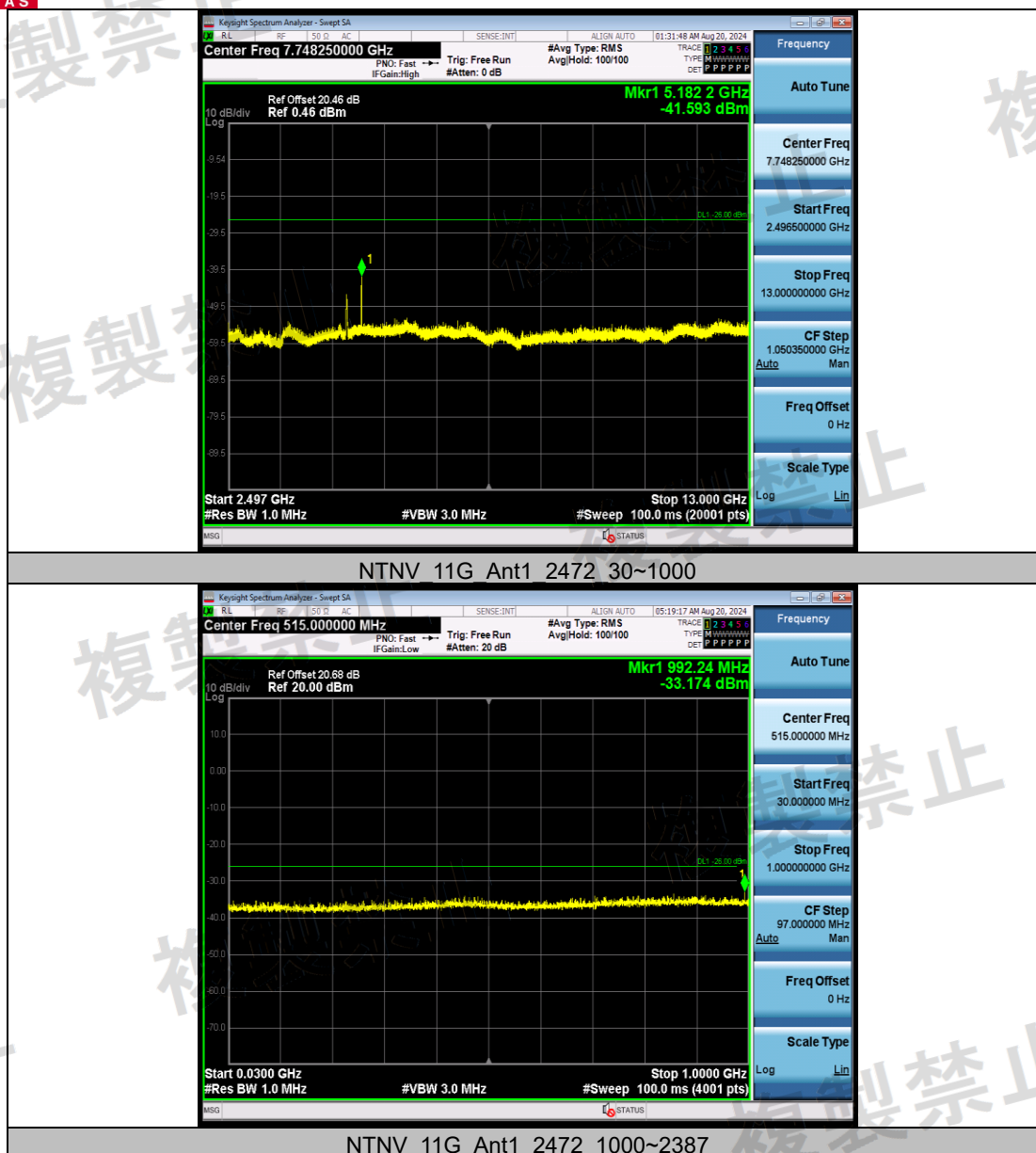
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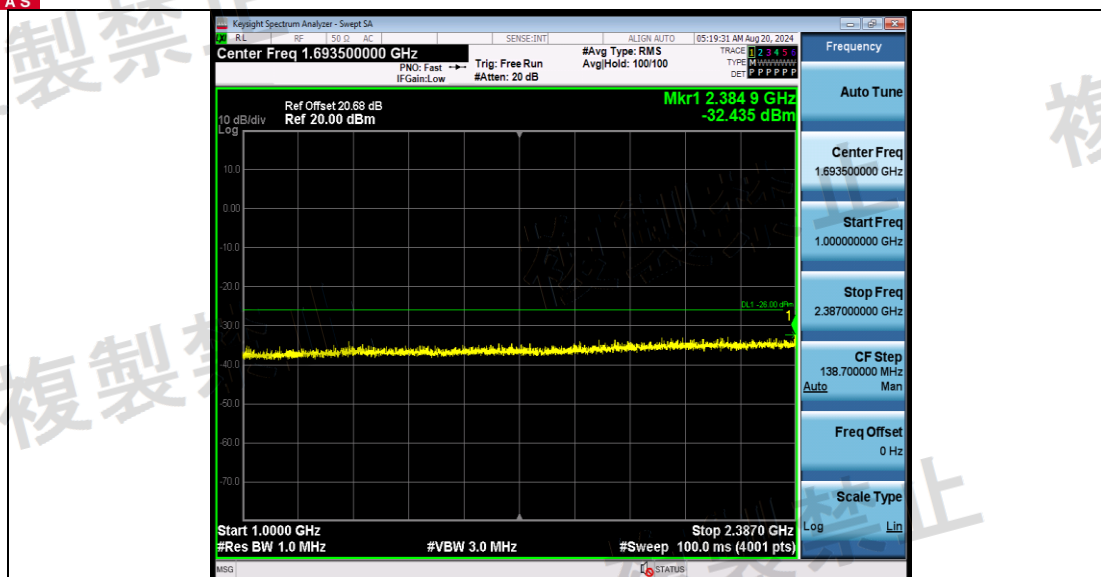
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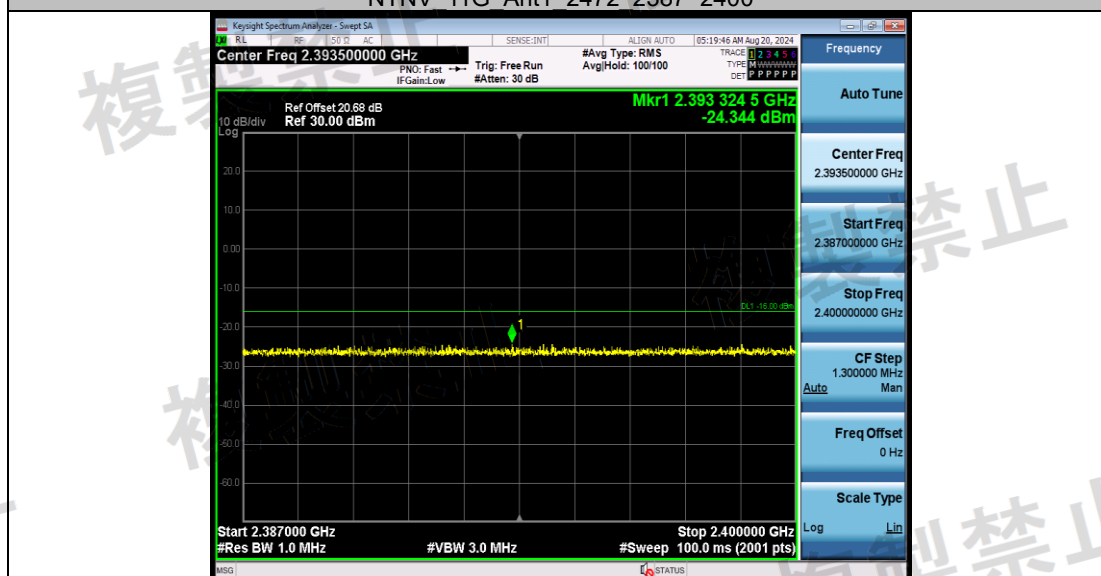


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NTNV 11G Ant1 2472 2387~2400

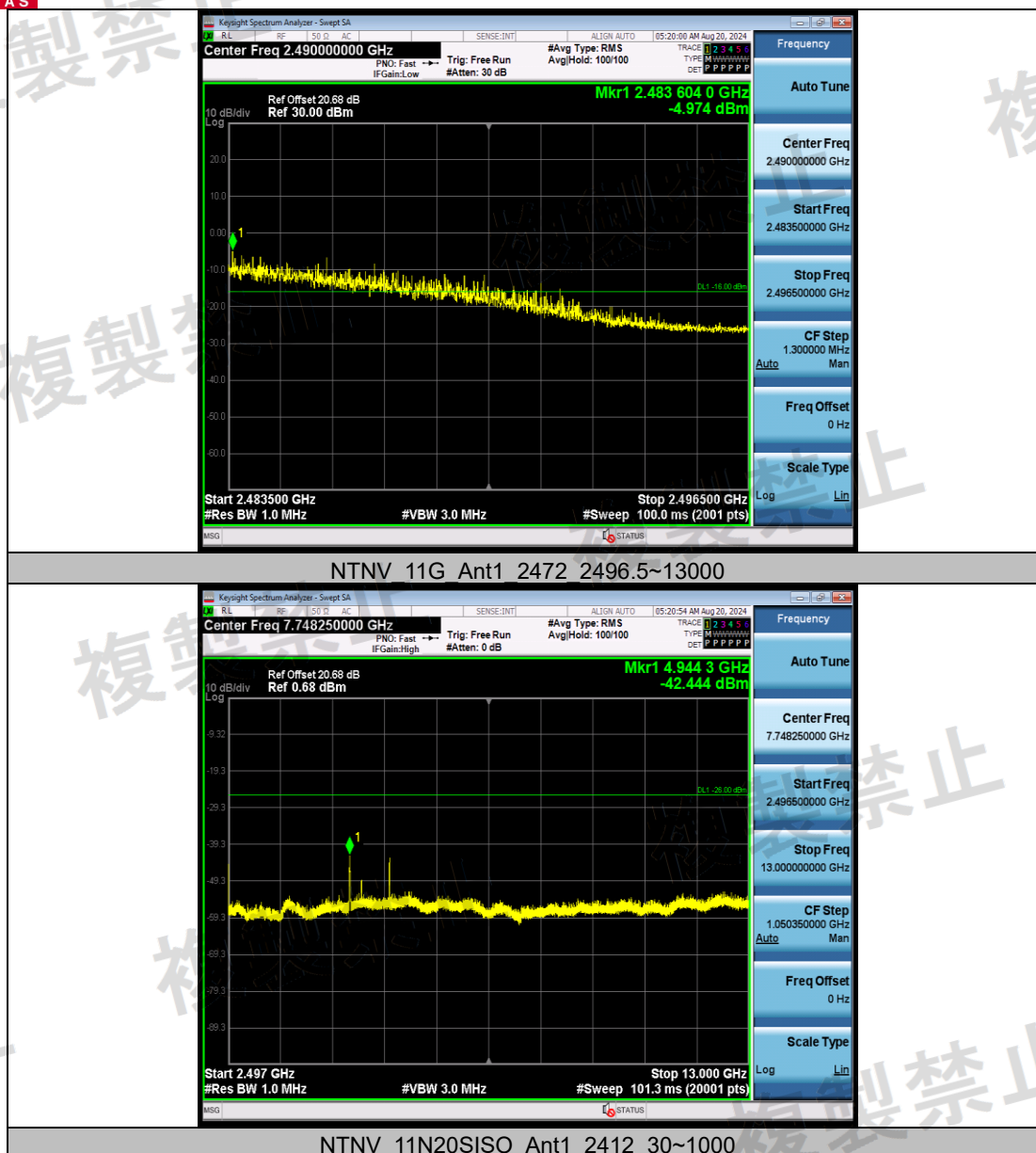


NTNV 11G Ant1 2472 2483.5~2496.5



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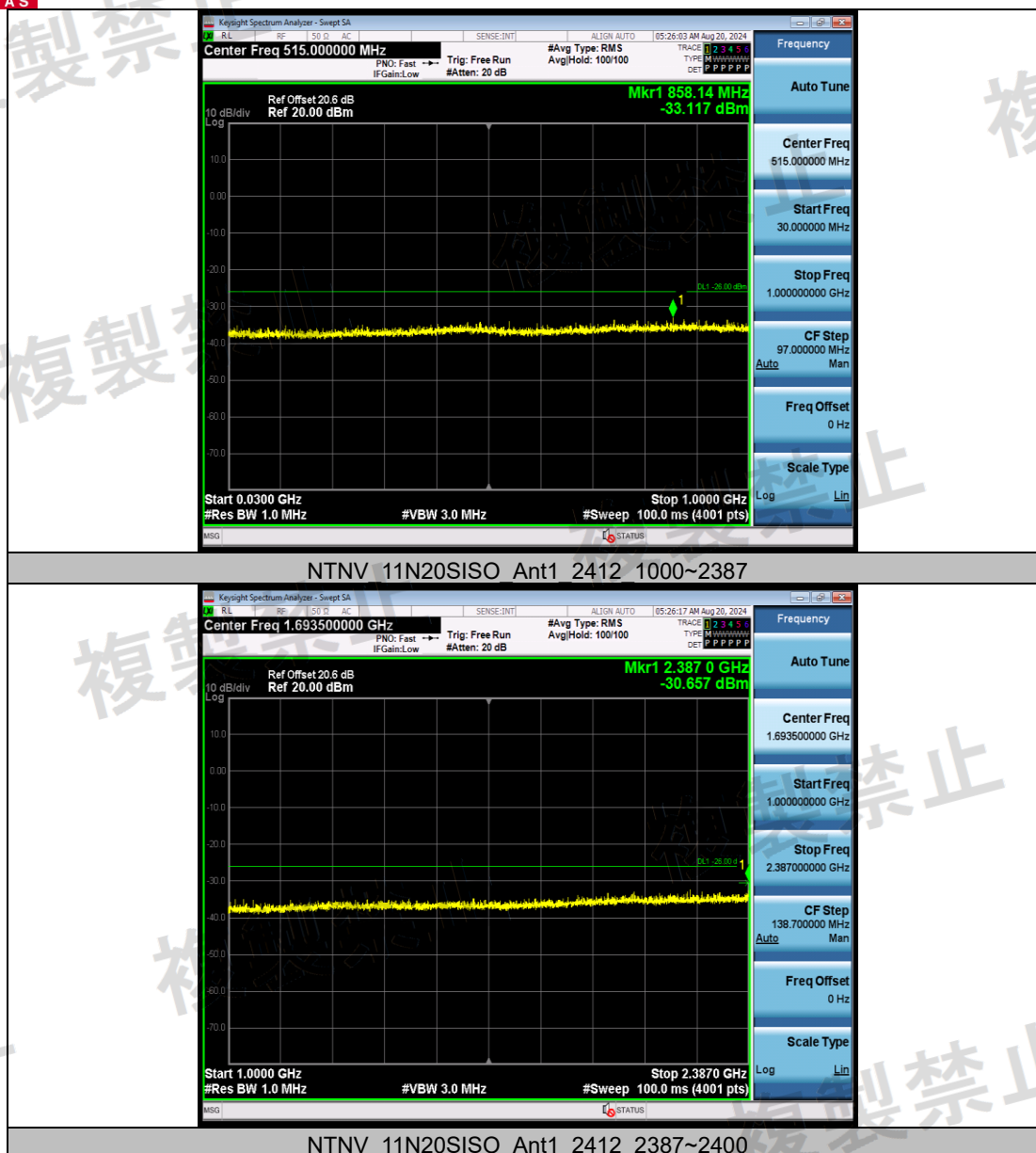
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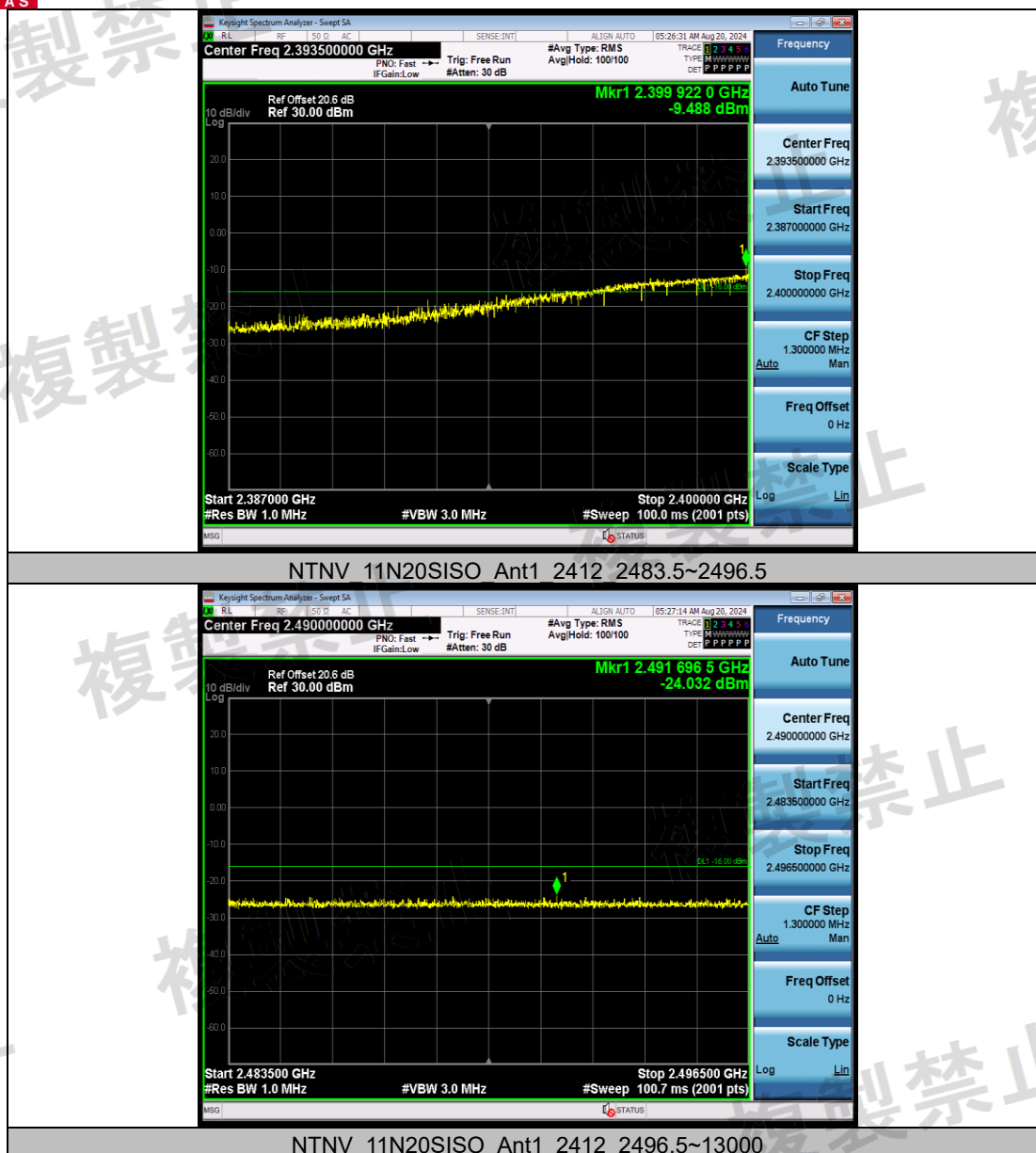
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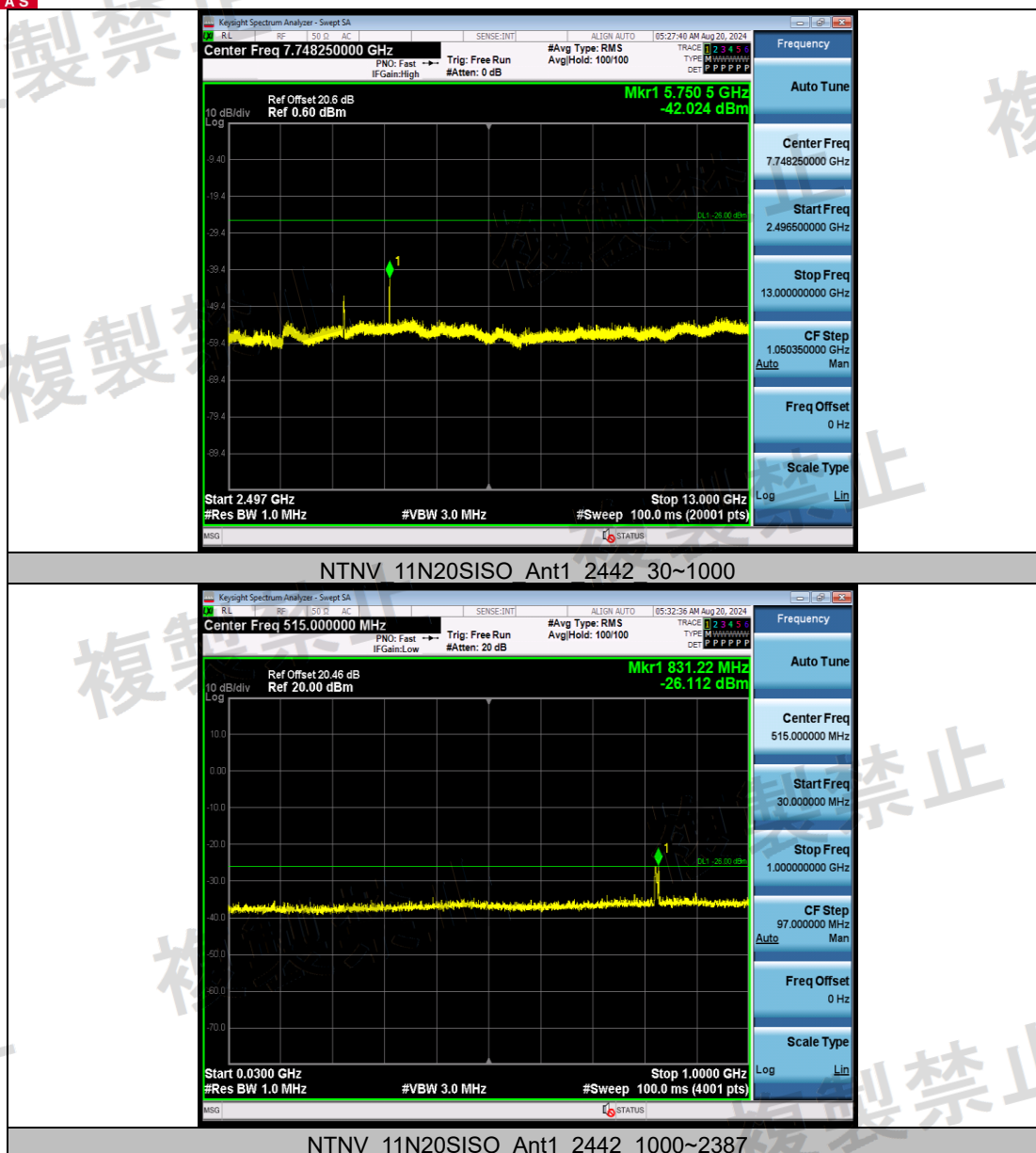
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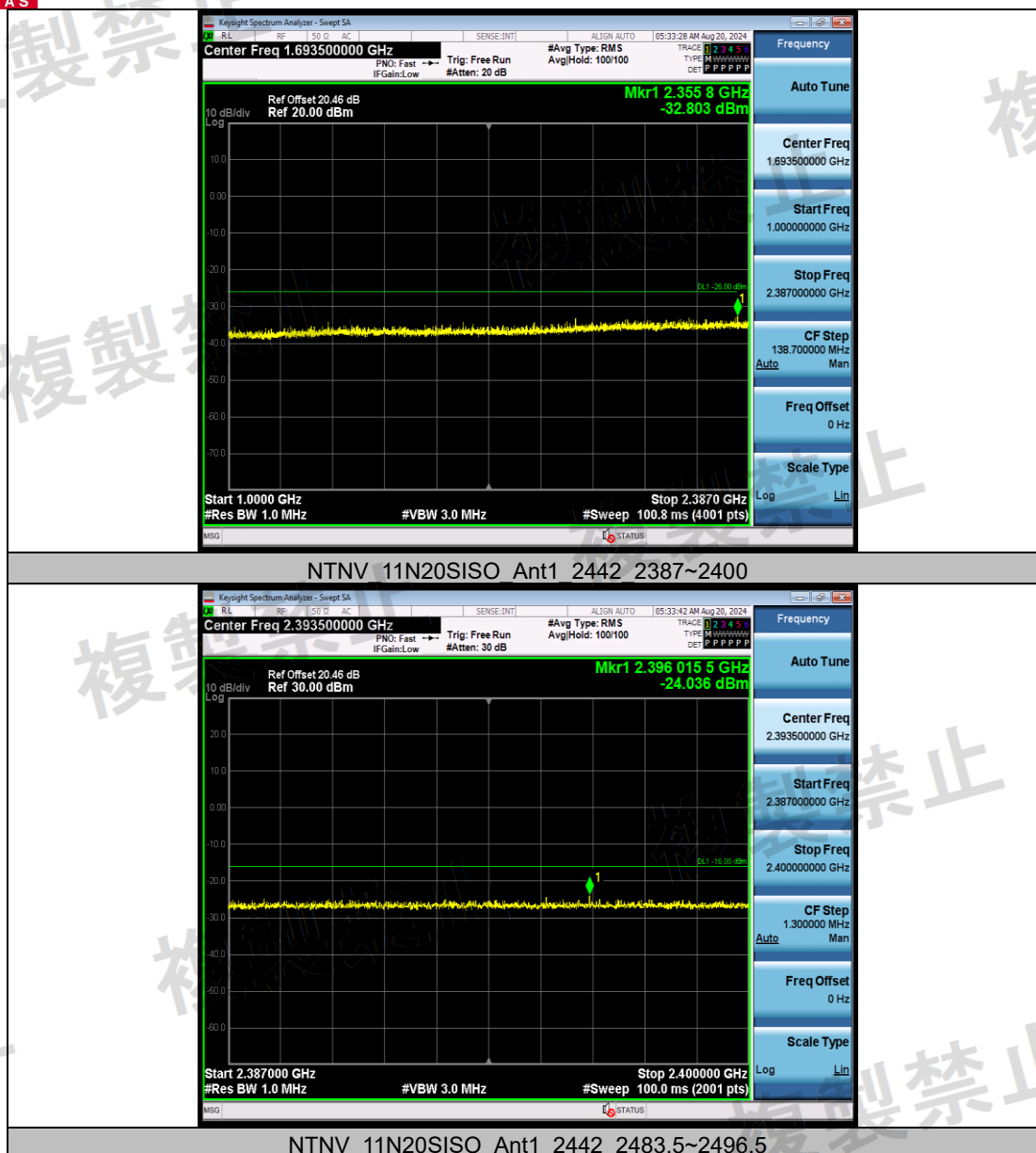
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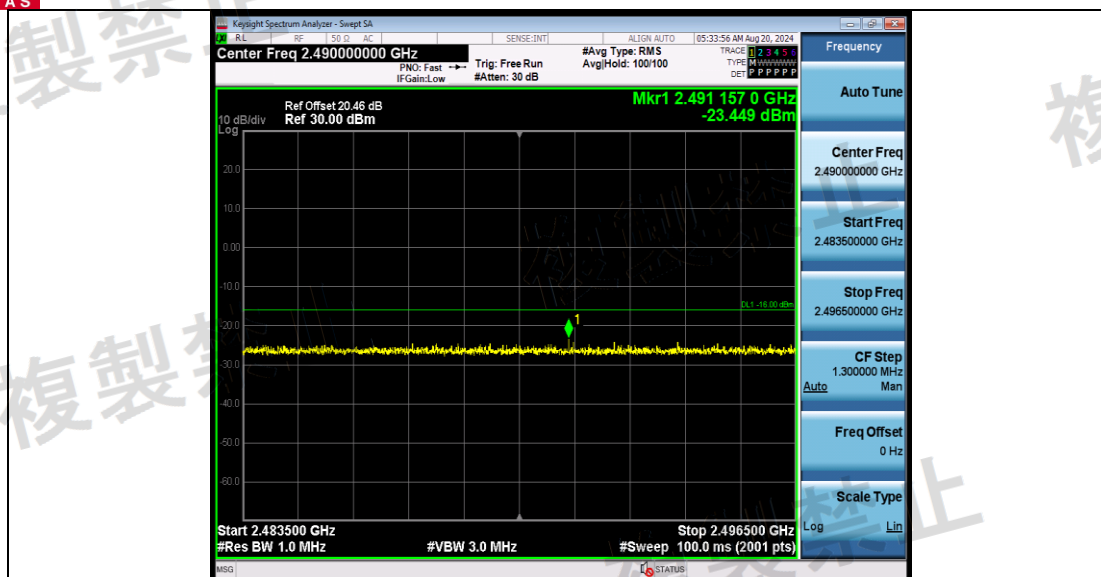
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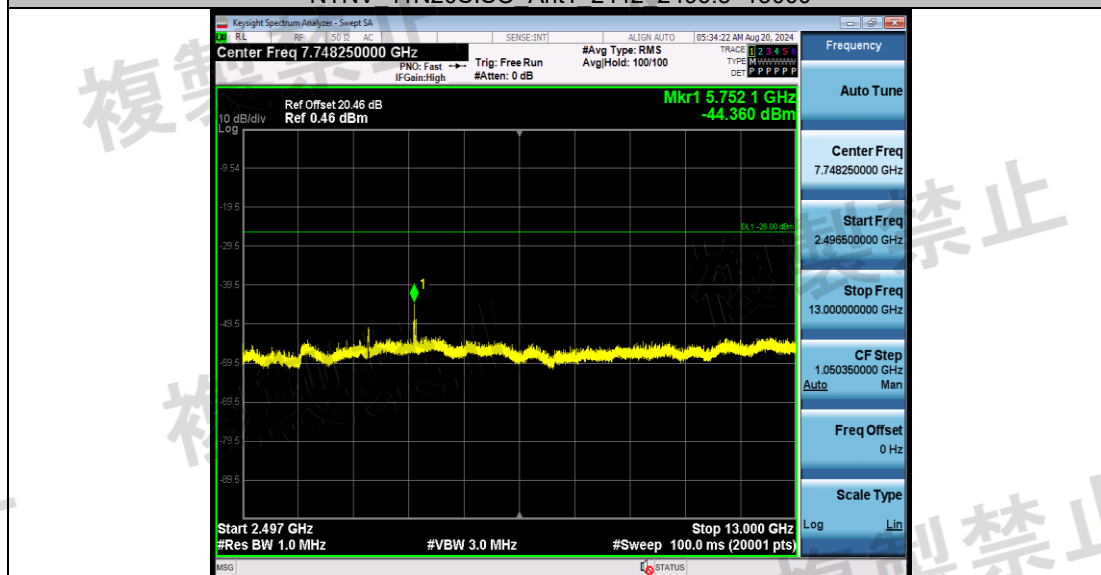


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NTNV_11N20SISO Ant1 2442 2496.5~13000

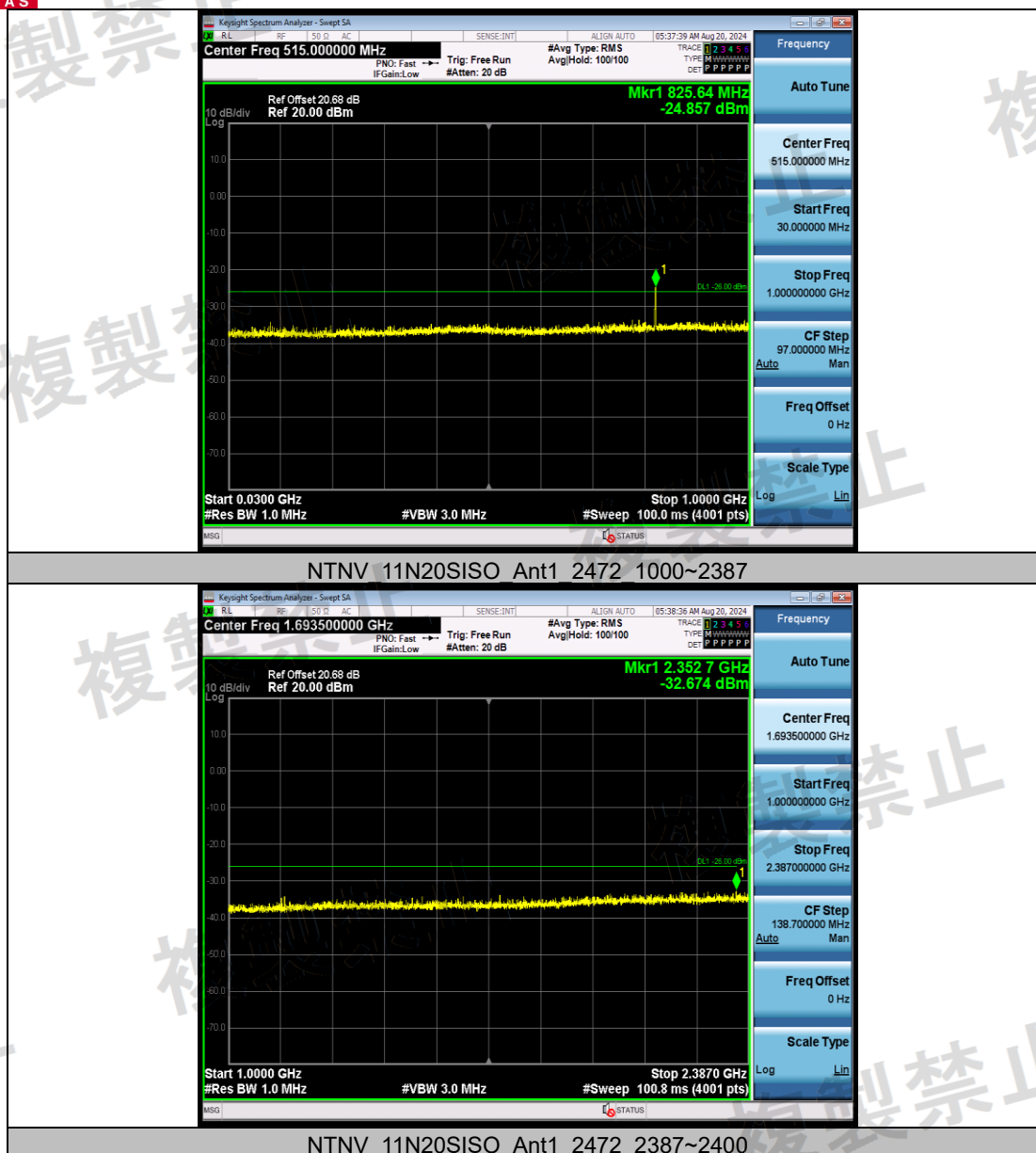


NTNV_11N20SISO Ant1 2472 30~1000



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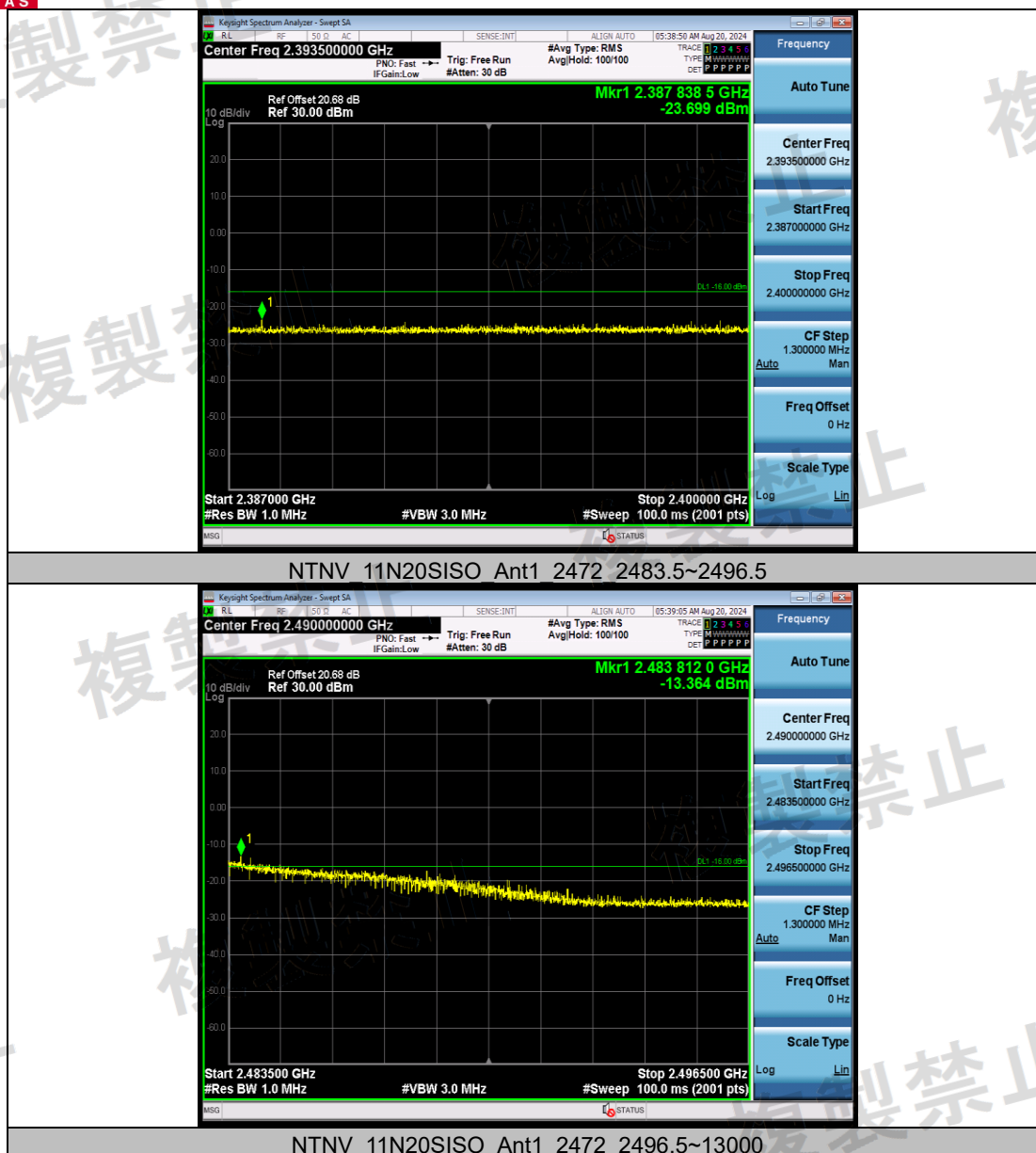
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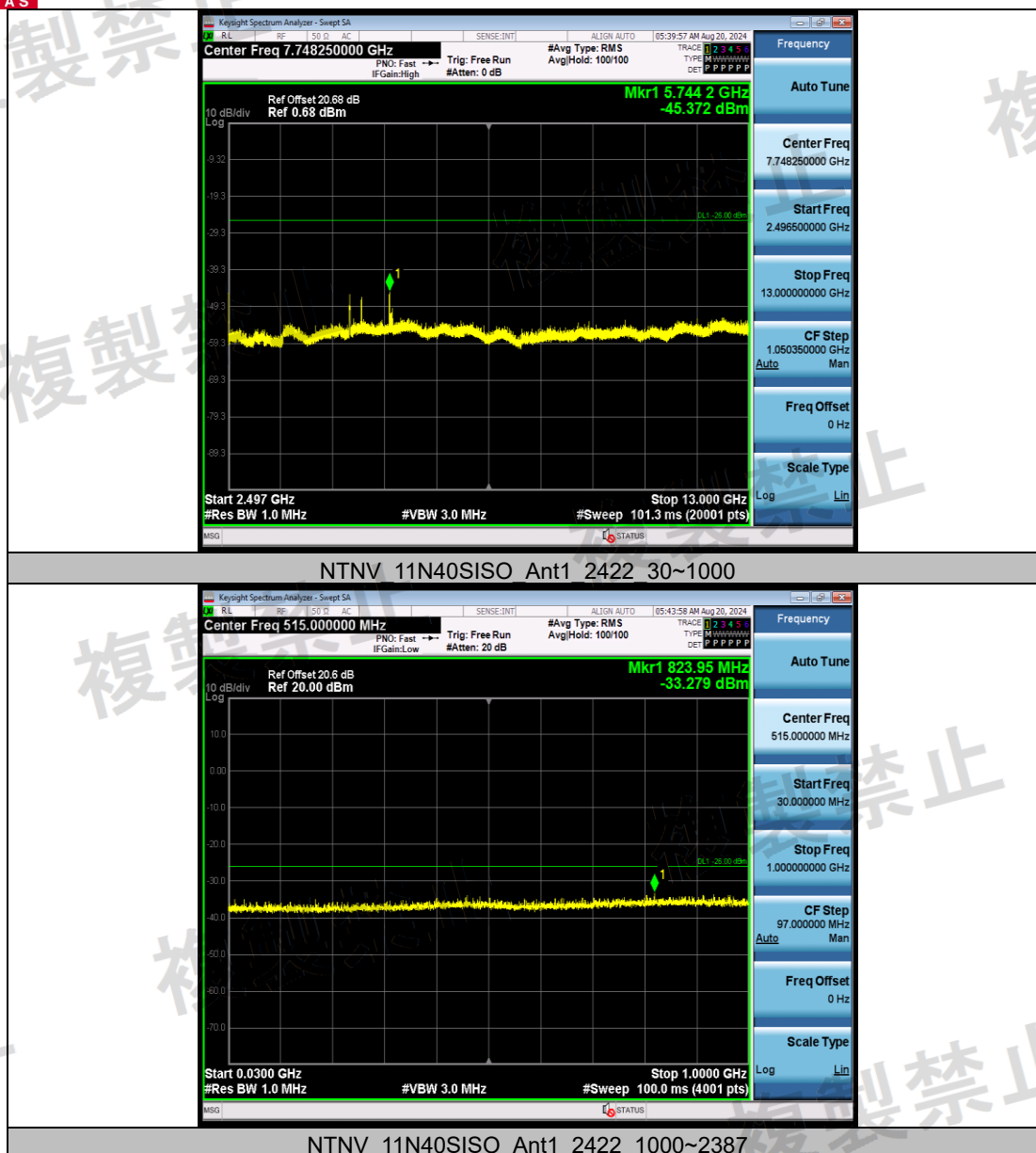
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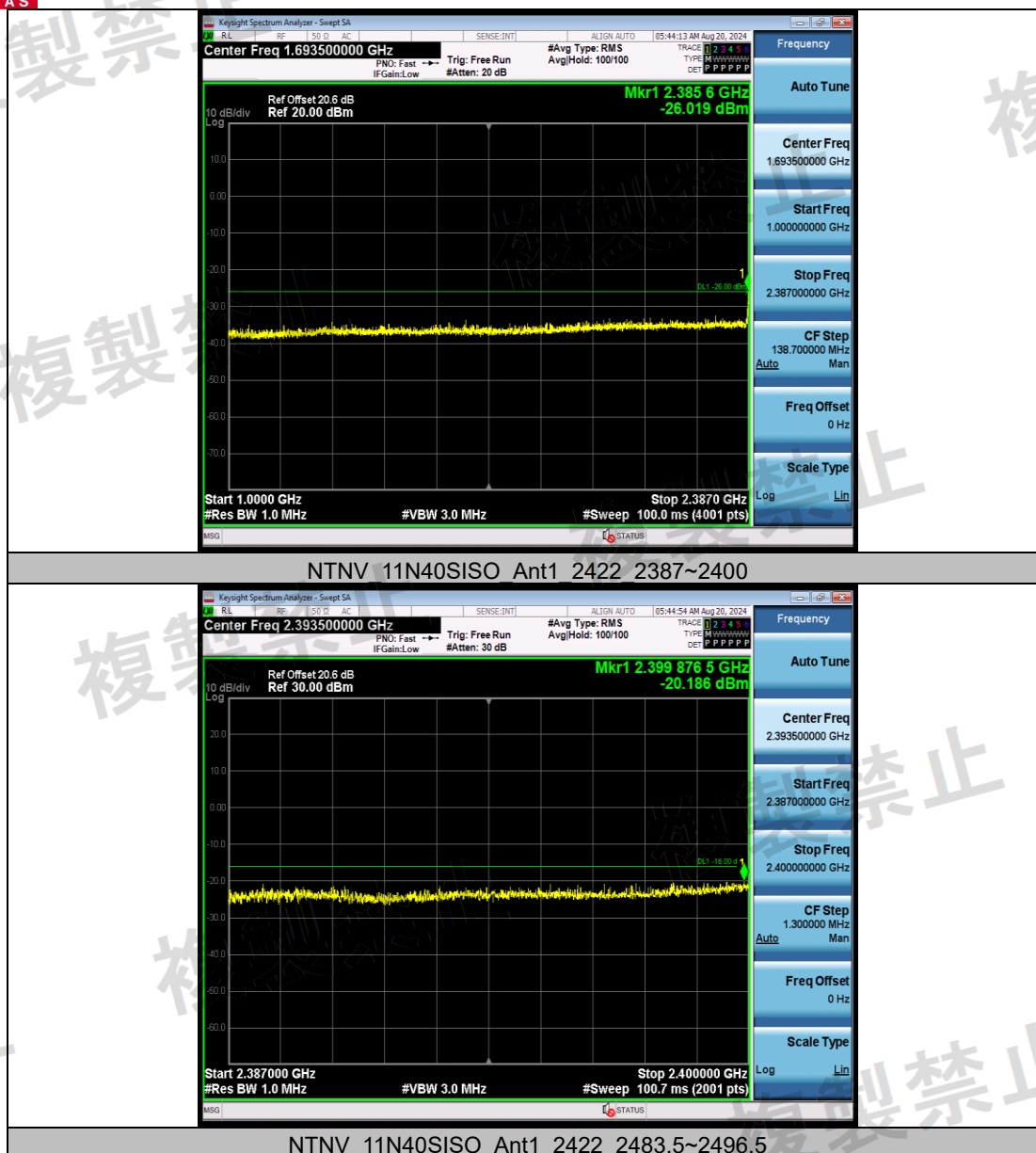
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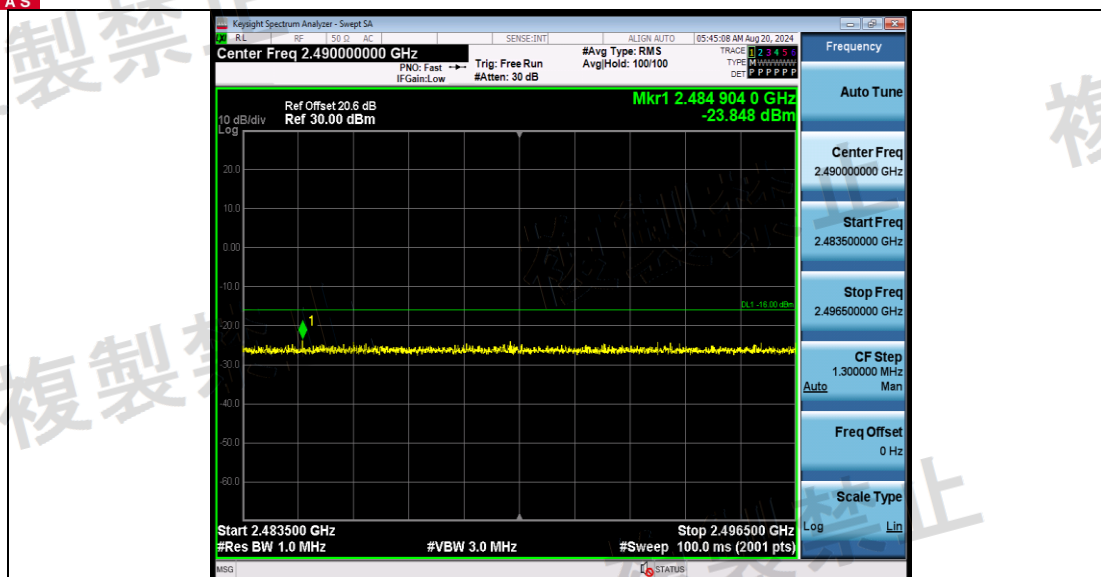
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NTNV_11N40SISO_Ant1_2422_2496.5~13000

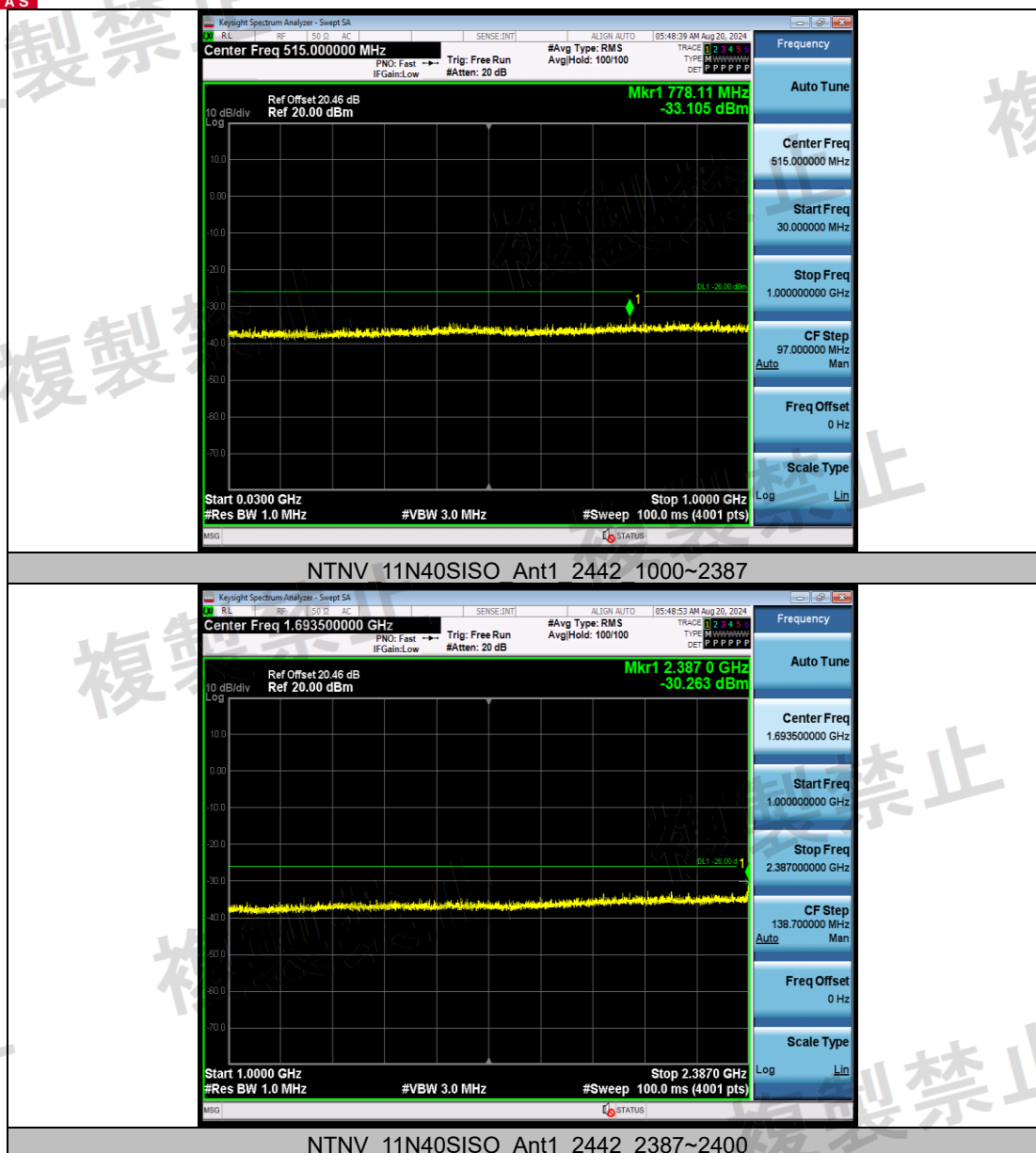


NTNV_11N40SISO_Ant1_2442_30~1000



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Test Report No.: PSU-QBJ2506170217RJ03



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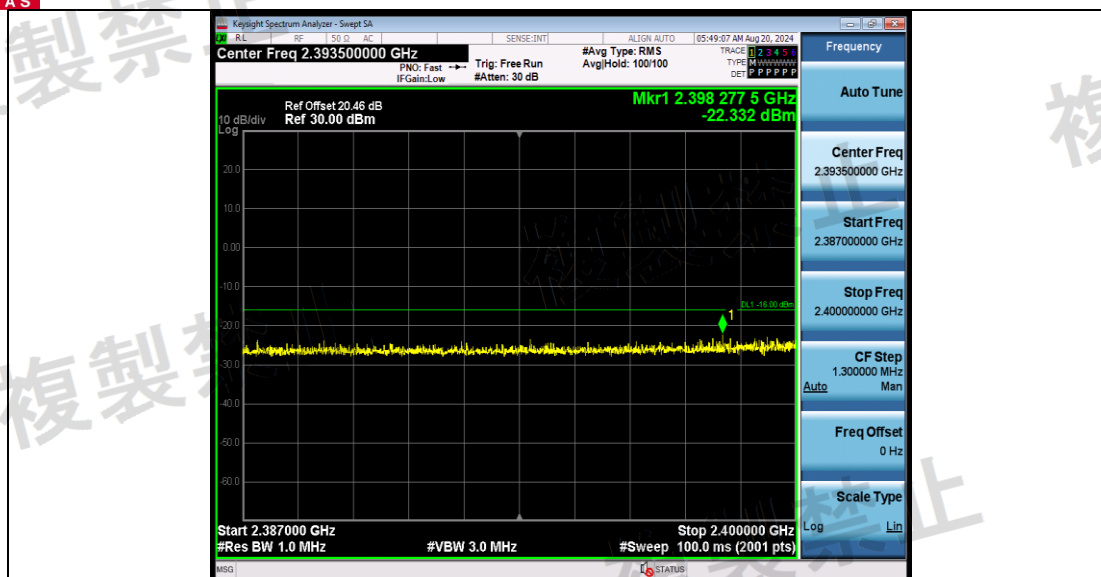
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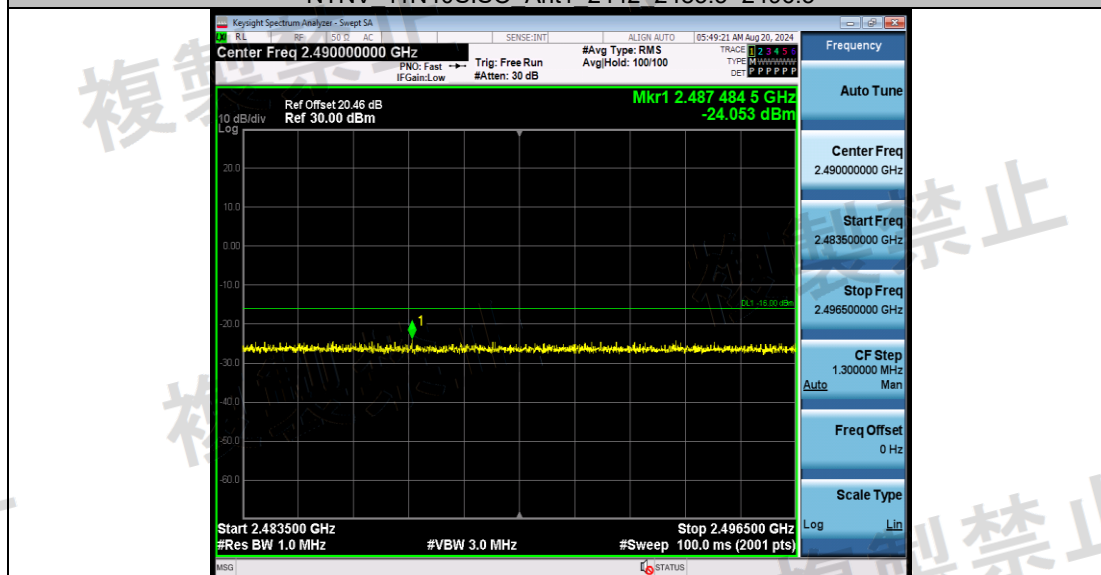


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Test Report No.: PSU-QBJ2506170217RJ03



NTNV_11N40SISO_Ant1_2442_2483.5~2496.5

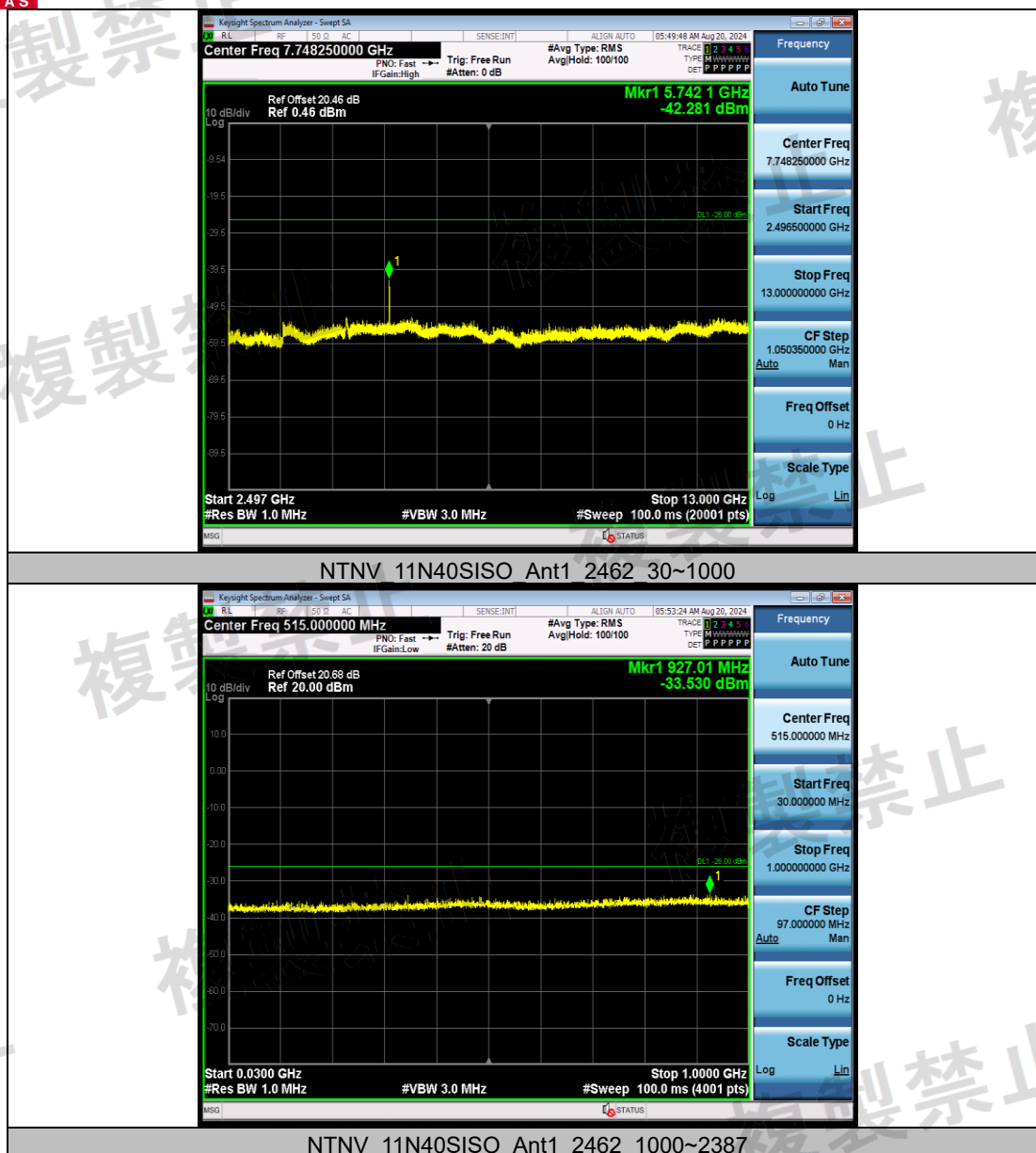


NTNV_11N40SISO_Ant1_2442_2496.5~13000



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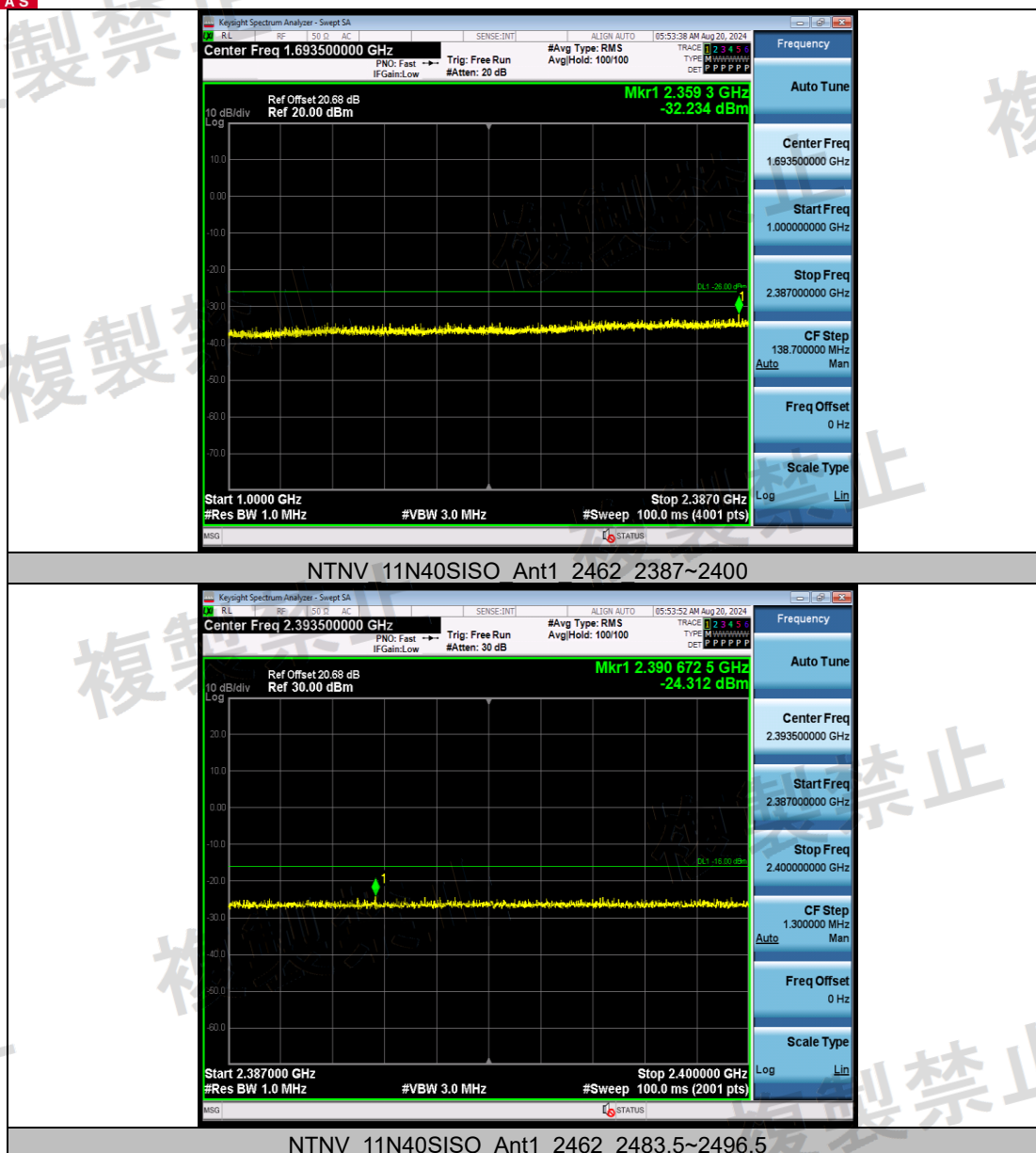
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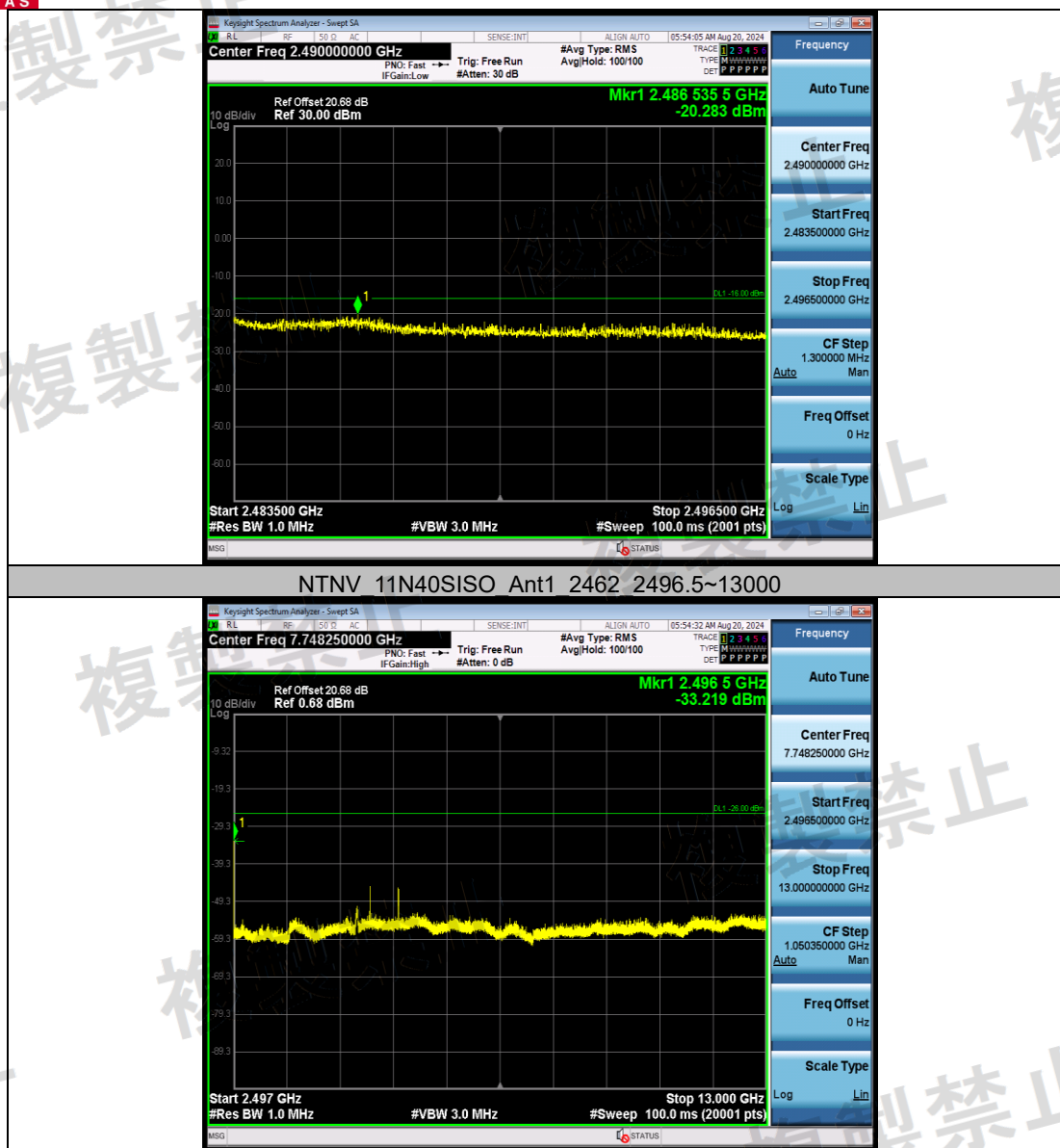
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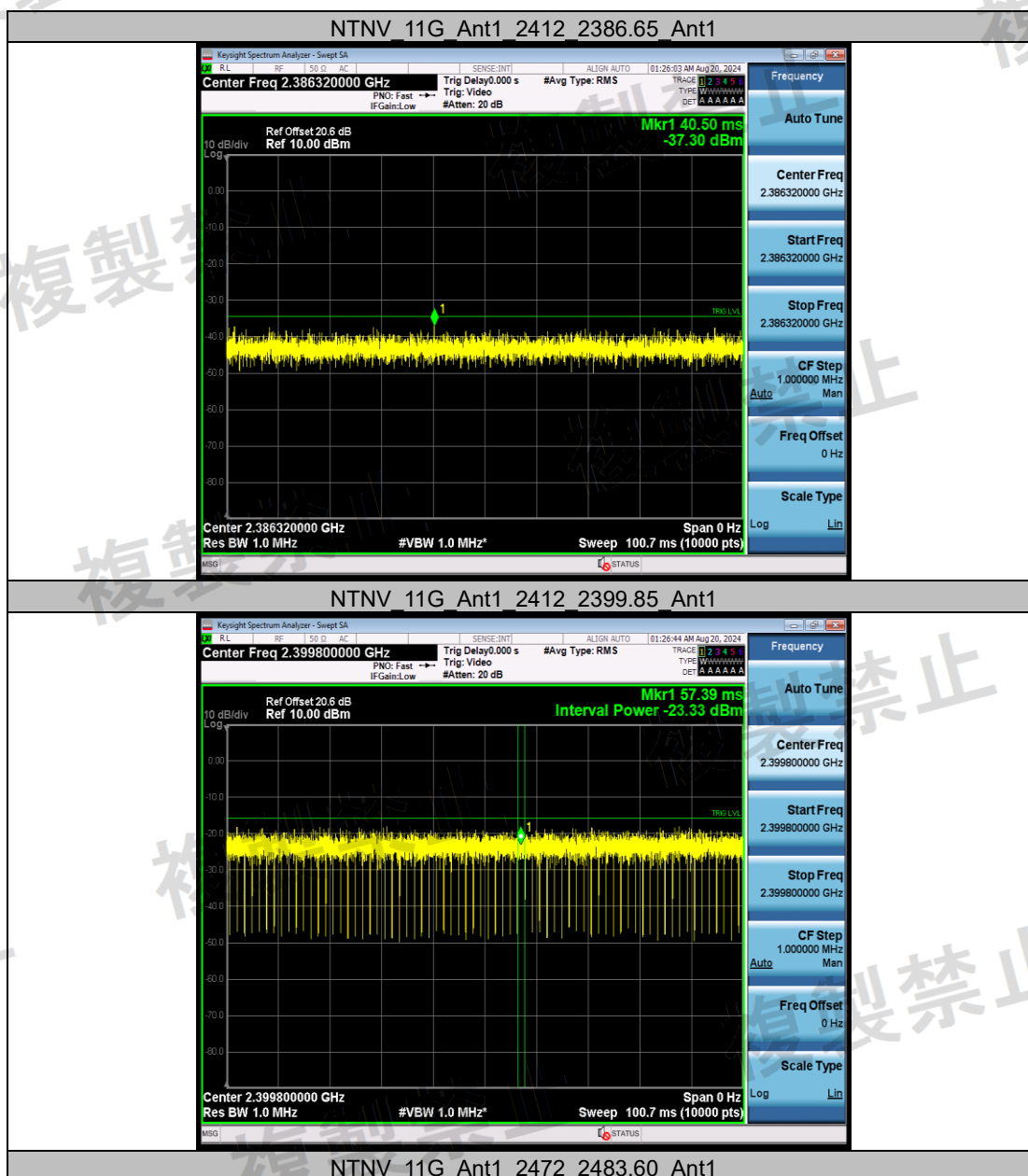
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Test Report No.: PSU-QBJ2506170217RJ03

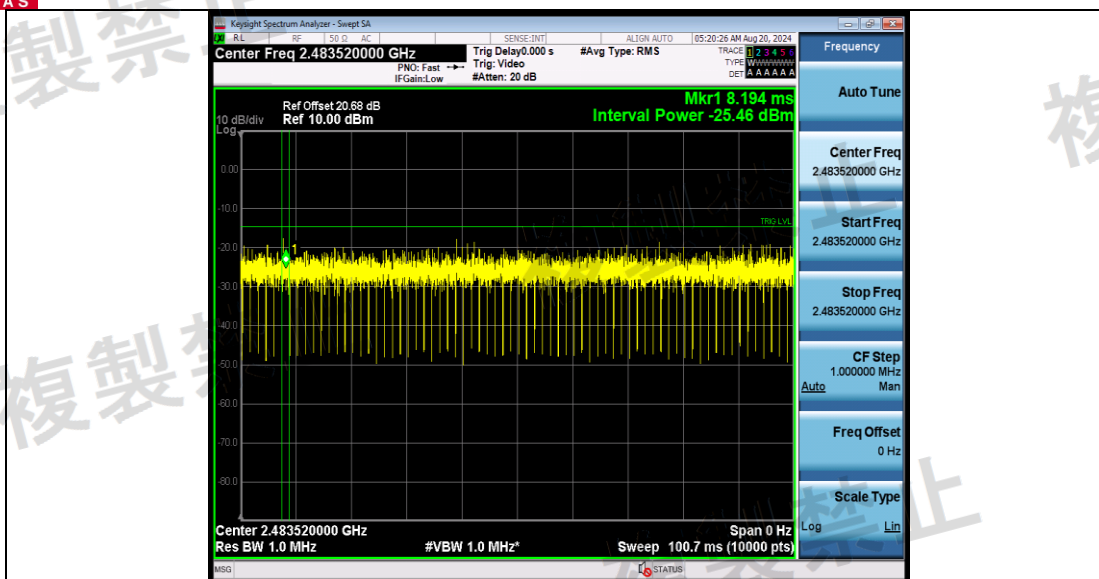
TEST GRAPHS_STEP2



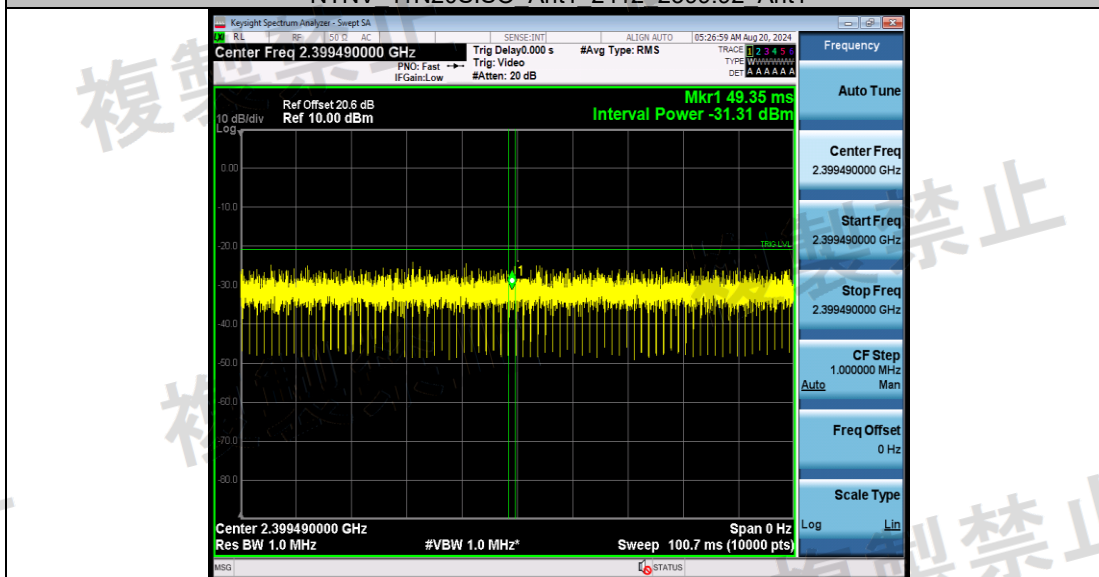


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Test Report No.: PSU-QBJ2506170217RJ03



NTNV 11N20SISO Ant1 2412 2399.92 Ant1



NTNV 11N20SISO Ant1 2442 831.22 Ant1